

AD-A074 618

AMMANN AND WHITNEY NEW YORK  
SCIENTIFIC DIRECTOR'S REPORT OF ATOMIC WEAPON TESTS AT ENIWETOK--ETC(U)  
NOV 51

F/6 18/3  
--ETC(U)

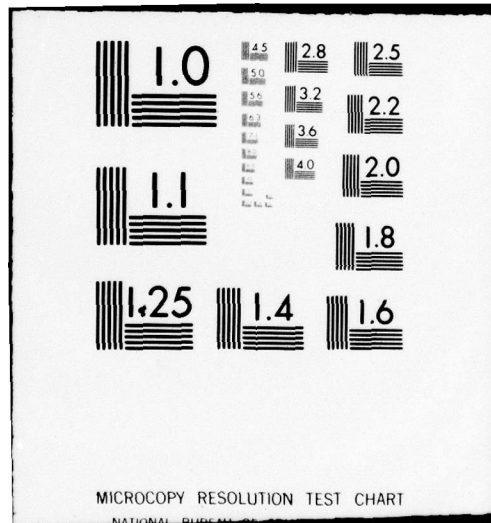
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AEC-WT-60(REF)-PT-3

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INVENTORY

AEC WT-60(Ref.) Part III

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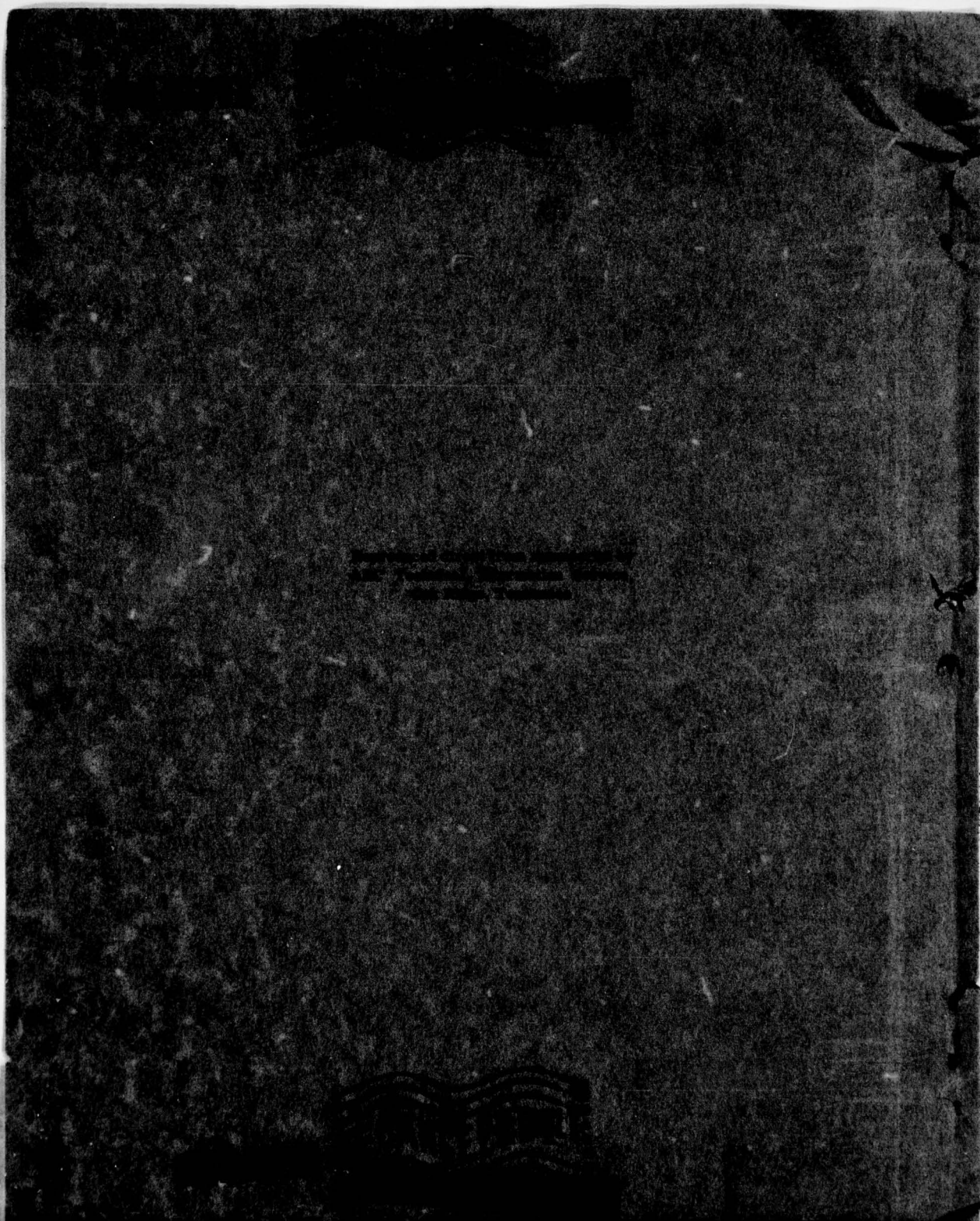
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This document consists of 26 pages (counting all preliminary pages)

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WT-60(REF.) is divided into four parts as follows:

Part I - Pages 1 through 75

Part II - Pages 76 through 90

Part III - Pages 91 through 110

Part IV - Pages 111 through 130

## Scientific Director's Report of Atomic Weapon Tests at Eniwetok, 1951

Annex 3.1

U. S. Army Structures

Appendix 2 As-built Construction

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# U. S. ARMY STRUCTURES

## Appendix 2 As-built Construction

by

AMMANN & WHITNEY  
Consulting Engineers

Approved by: SHERWOOD B. SMITH  
Director, Program 3

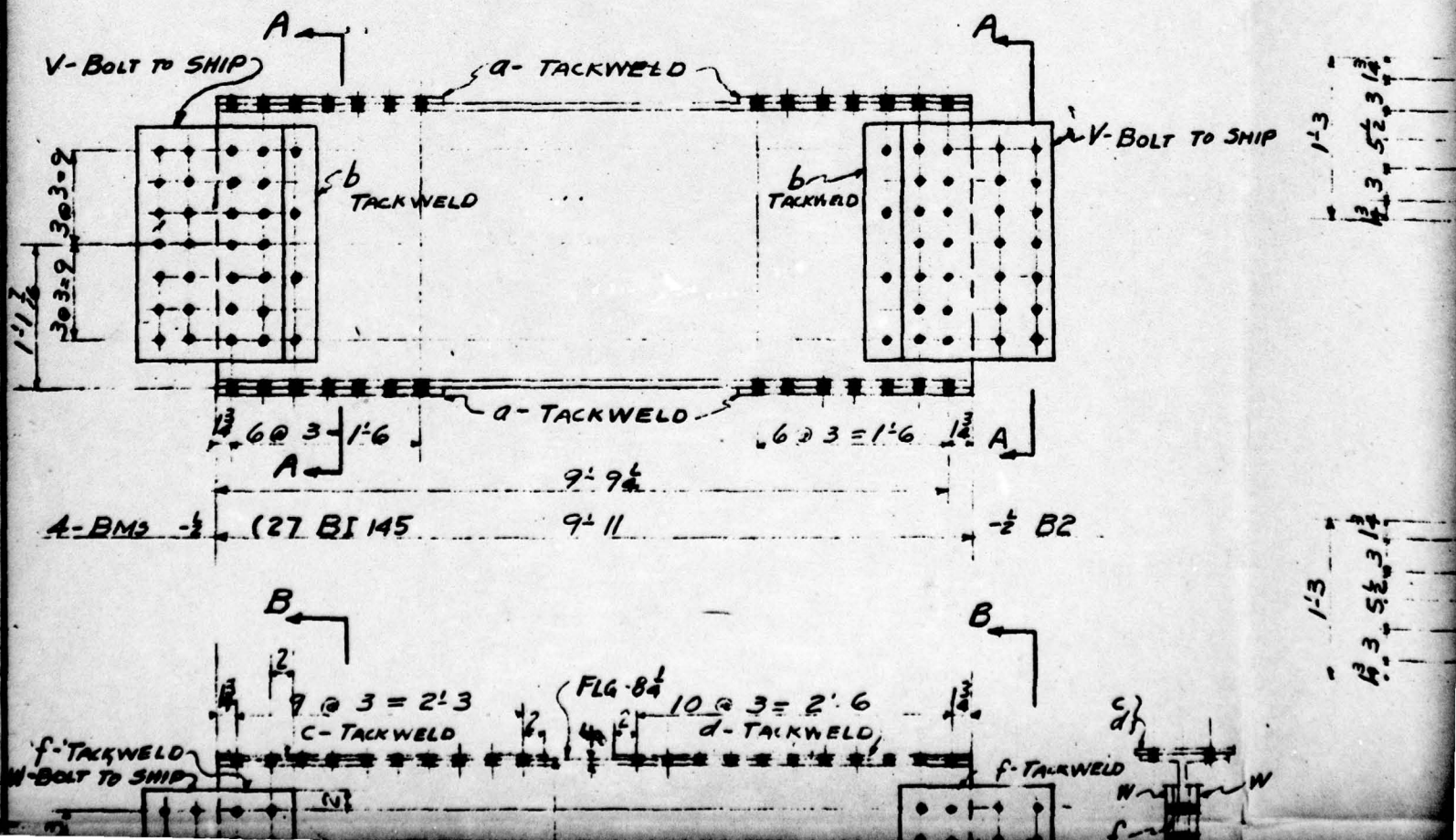
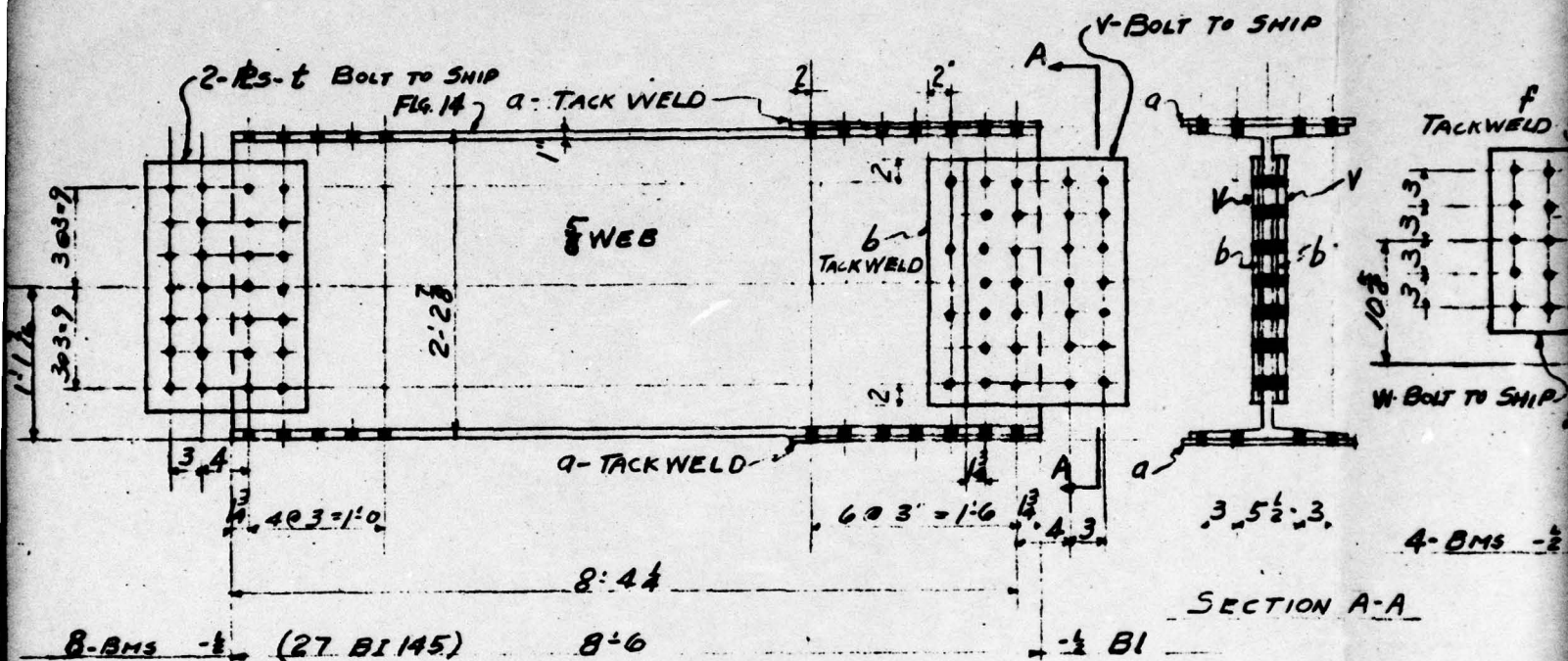
Approved by: ALVIN C. GRAVES  
Scientific Director

New York, New York  
November 1951

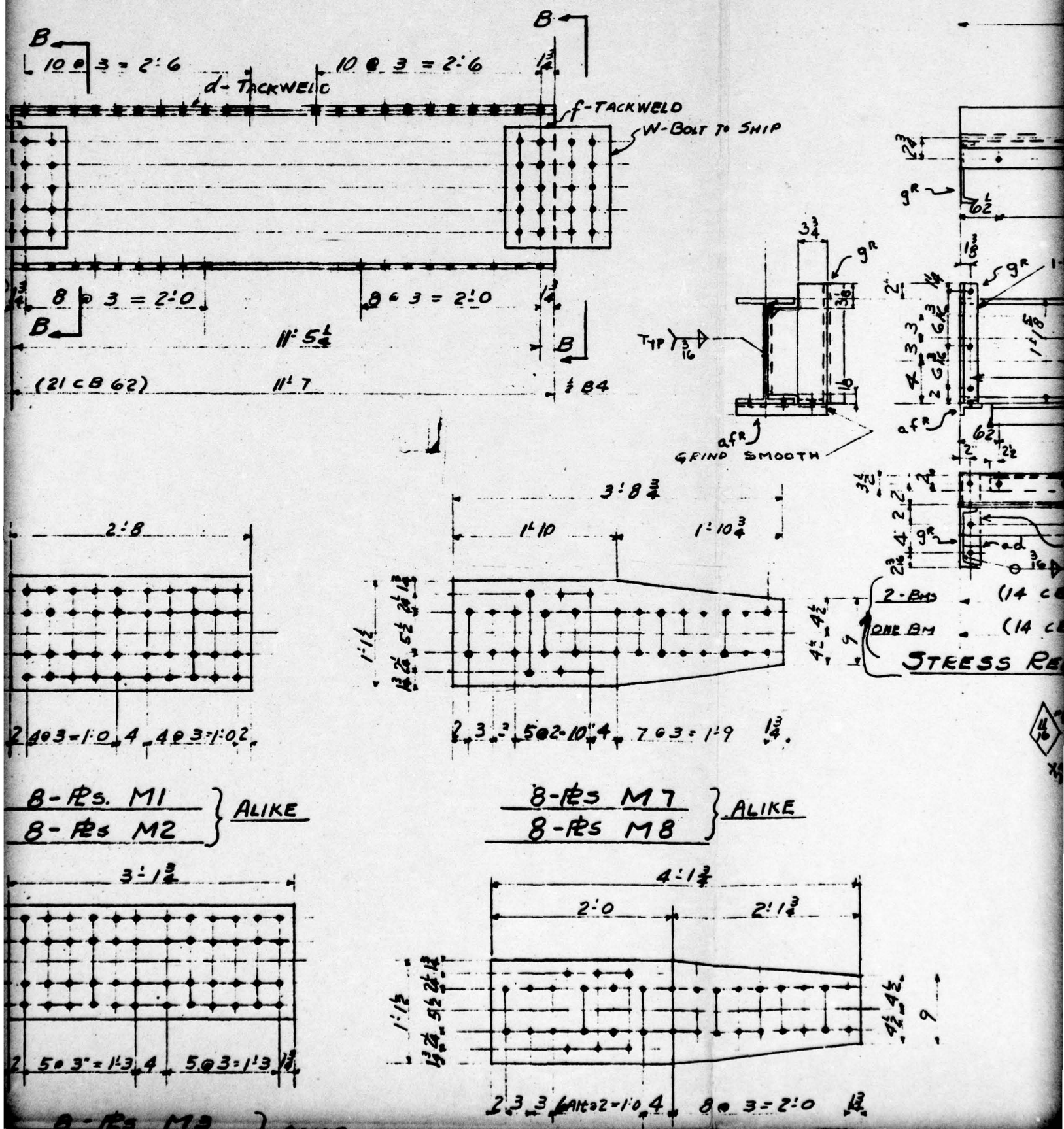
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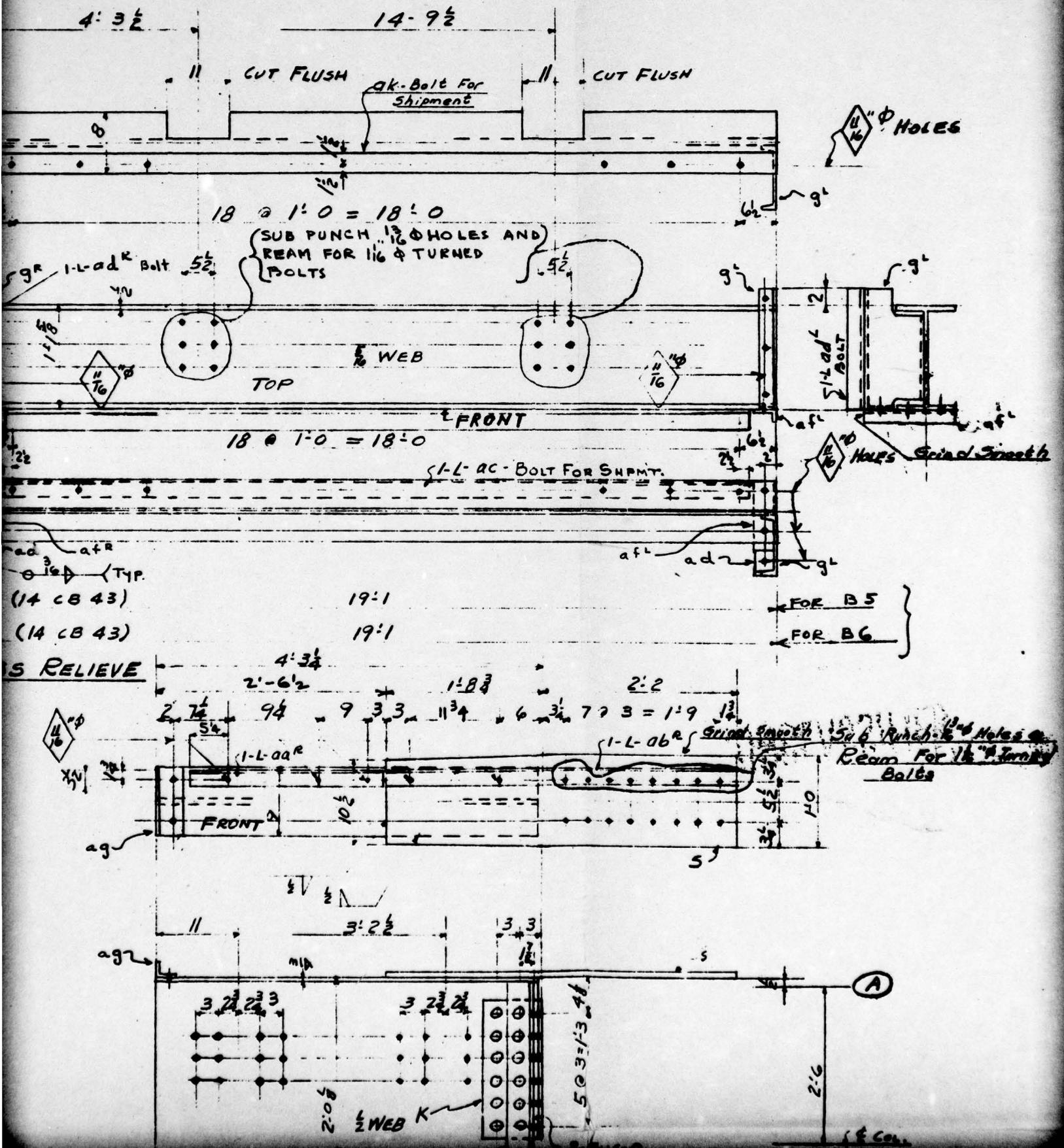
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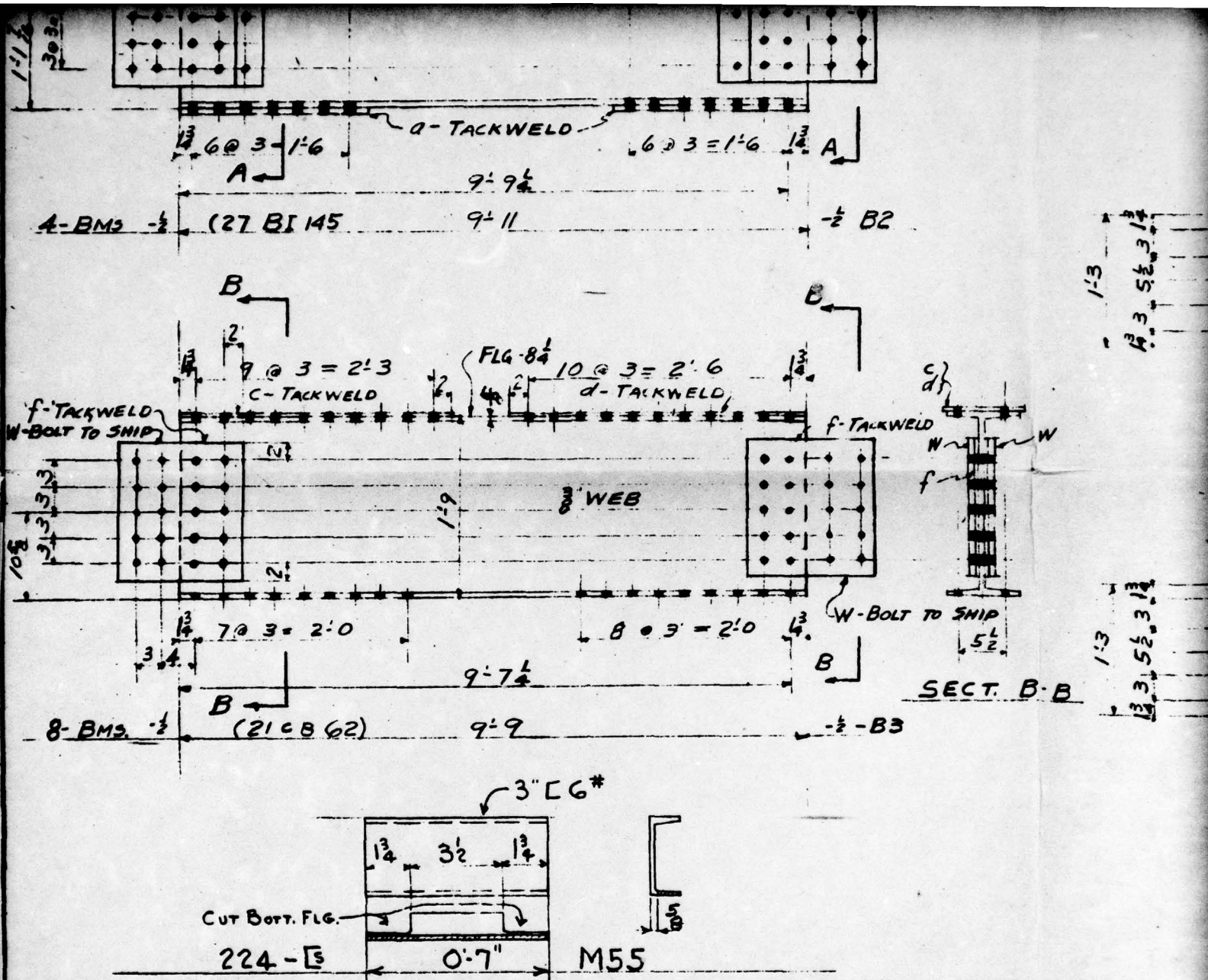








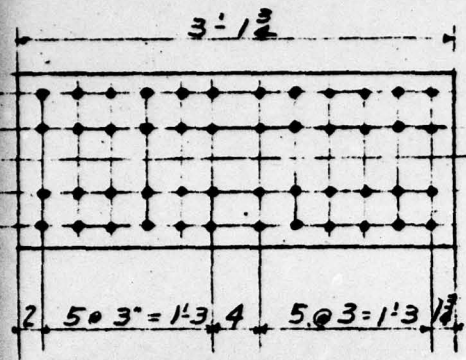




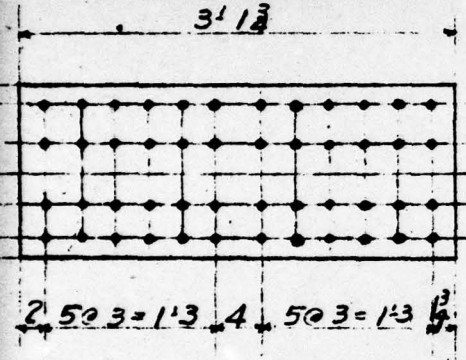
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									1	2				
1	8		27 BI 145	8'-6	B1	A7	S	ML 3/4	4	4	18		32	FILLS
2	4		27 BI 145	9'-11	B2			ML 3/5	2	2	19		32	FILLS
3	8		21 CB 62	9'-9	B3			ML 3/16	4	4	20		8	FILLS
4	4		21 CB 62	11'-7	B4			ML 3/17	2	2	21		16	FILLS
5	8		15 x 1	2'-8	M1			ML 9/11	4	4	22		48	FILLS
6	8		15 x 1	2'-8	M2			ML 6/11	4	4	23		6	B
7	8		15 x 1 1/2	3'-1 1/4	M3			ML 6/9	4	4	24		4	L 8 x 1
8	8		15 x 1 1/2	3'-1 3/4	M4			ML 6/9	4	4	25		4	L 4 x 1
9	8		15 x 1 1/2	3'-1 1/2	M5			ML 6/9	4	4	26		4	FILLS
10	8		15 x 1 1/2	3'-1 1/2	M6			ML 6/9	4	4	27		2	R. 20
11	8		13 1/2 x 1	3'-8 3/4	M7				4	4	28		2	R. 12
12	8		13 1/2 x 1	3'-8 3/4	M8				4	4	29		16	R. 14
13	8		13 1/2 x 1	4'-1 1/2	M9			ML 6/11	4	4	30		32	R. 13
14	8		13 1/2 x 1	4'-1 1/2	M10			ML 6/11	4	4	31		48	R. 14
15	8		13 1/2 x 1	4'-1 1/2	M11			ML 6/11	4	4	32		2	L-3 1/2
16	8		13 1/2 x 1	4'-1 1/2	M12			ML 6/11	4	4	33		2	L-3 1/2
17		6	Bars 2' x 1/4	0'-8 1/4	ad	AT MACHIN	S				34		3	L-3 1/2

403-10.4 403-10.2

8-Pcs M1 } ALIKE  
8-Pcs M2 }

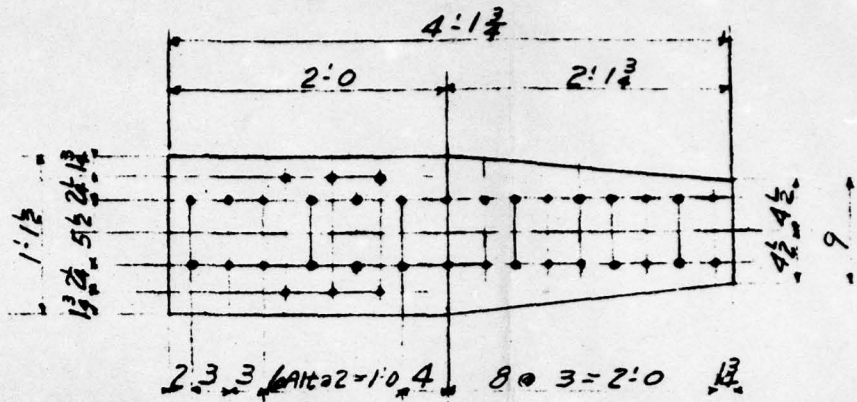


8-Pcs M3 } ALIKE  
8-Pcs M4 }

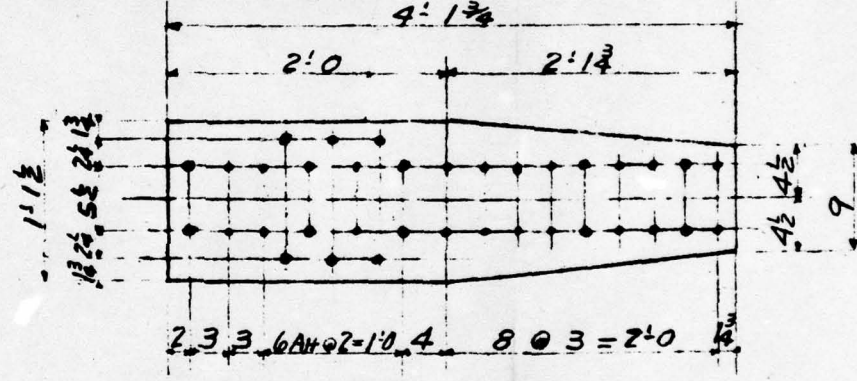


8-Pcs M5 } ALIKE  
8-Pcs M6 }

8-Pcs M7 } ALIKE  
8-Pcs M8 }



8-Pcs M9 } ALIKE  
8-Pcs M10 }



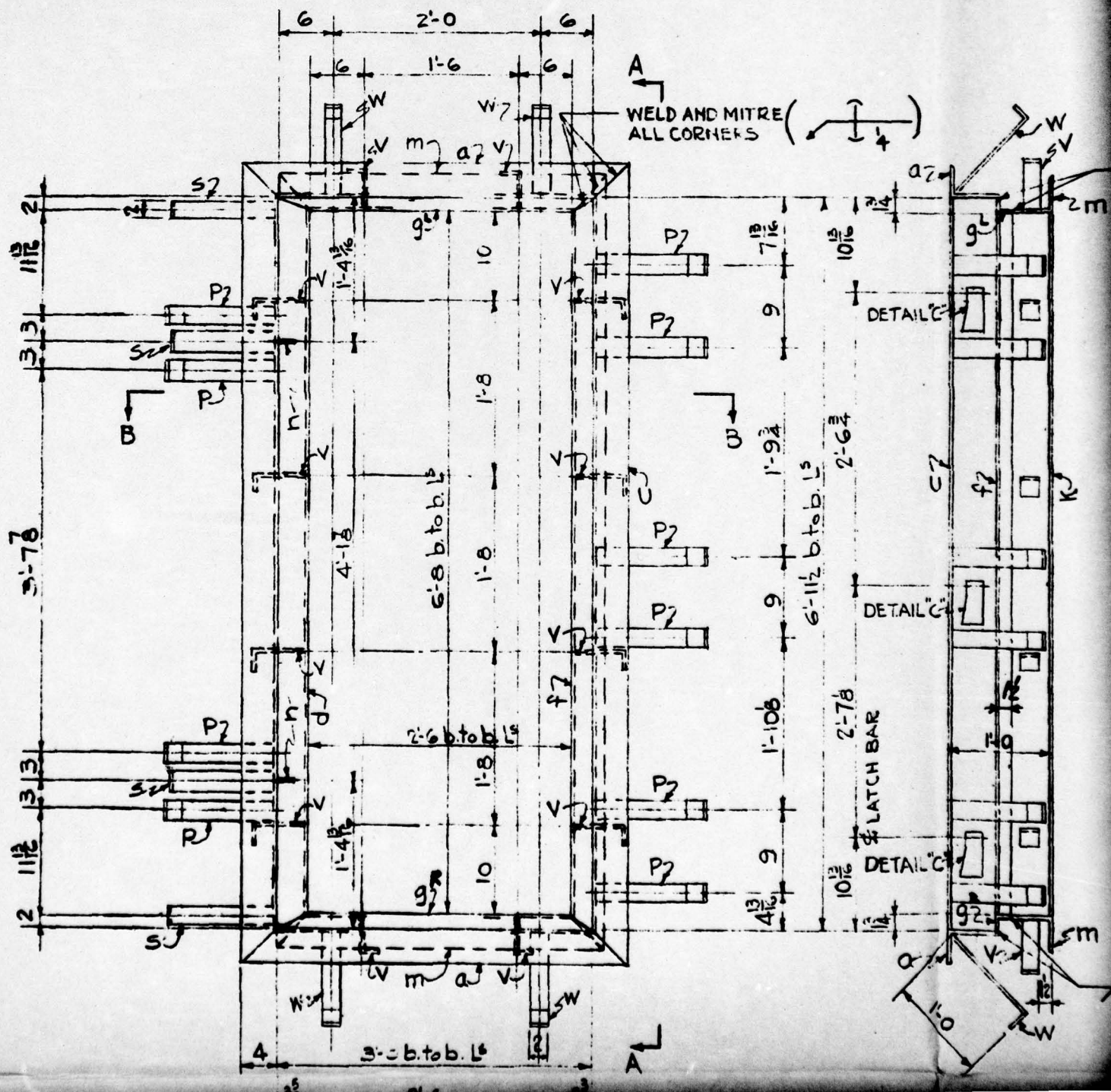
8-Pcs M11 } ALIKE  
8-Pcs M12 }

FIG. A2.60 STRESS RELIEVE →

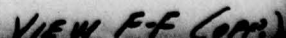
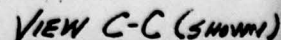
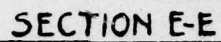
DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	WEIGHT	LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.
15 x 3/8	1' 9 3/4	a	A7	S		35	2		14 CB 43	19
9 3/4 x 1/8	1' 10	b				36	1		14 CB 43	19
8 1/2 x 1/4	2' 6 3/4	c				37	1		24 CB 84	4
8 1/2 x 1/4	2' 9 3/4	d				38	1		24 CB 84	4
6 3/4 x 1/8	1' 4	f				39	316		3 M 6" (NO DETAIL)	
11.5	1' 3 3/8	g				40	216		3 M 6" (NO DETAIL)	
8 x 1/2	1' 6 1/2	k				41	224		3 M 6"	
1 x 9/8	1'-10 3/4 FZE	m				42		6	L'-2 1/2 x 2 1/2 x 1/8	10
3' x 5/8	1' 6 1/2	n	A7 Mech Bar Analysis			43		7	LBS. SHIP WELD. WELDING ROD E	
20 3/4 x 5/8	1' 10	p	A7			44		24	SHIP RIVETS 1"	
12 x 1	3'-10 3/4	s				45		6	1 1/2 3 1/2 x 2 1/2 x 5/16	10
14 x 3/8	1'-10	t				46		2	1 1/2 3 1/2 x 2 1/2 x 5/16	0
13 1/2 x 3/8	1'-10	v				47		3	Bars 3 x 2	19
14 x 3/8	1' 4	w				48				
2-2 1/2 x 3/8	2-2	aa				49			Beams Marked B5, B6	
2 1/2 x 3/8	3'-10 3/4	ab				50			B7 To Be Stress Rel	

















## STRESS RELIEVE

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT	Pile										LINE	SHIP. PCS.	DETAIL PCS.
									3												
1	1		DOOR FRAME		DF1	A7	LBL	1									18	1	L		
2	1		↓		DF2	↓	↓	1									19	1			
3																	20	1	L		
4	4		LG x 4 x 3/8 (MITRE)	3'-8	a		L										21	1			
5	2		do	7'-7 1/2	b												22	1			
6	1		LG x 4 x 3/8 (MITRE)	7'-7 1/2	c			RL4									23	12	BAR		
7	2		L 3/8 x 1 1/2 (CUT MITRE)	6'-11 1/2	d	↓											24	13	L		
8	2		L 3/8 x 1 1/2 (CUT MITRE)	6'-11 1/2	f	AT MARCH BAR GUAN											25	13	BAR		
9	4		L 1 1/2 x 1 1/2 (CUT MITRE)	3'-0	g	do											26	10			

# DETAIL "C"

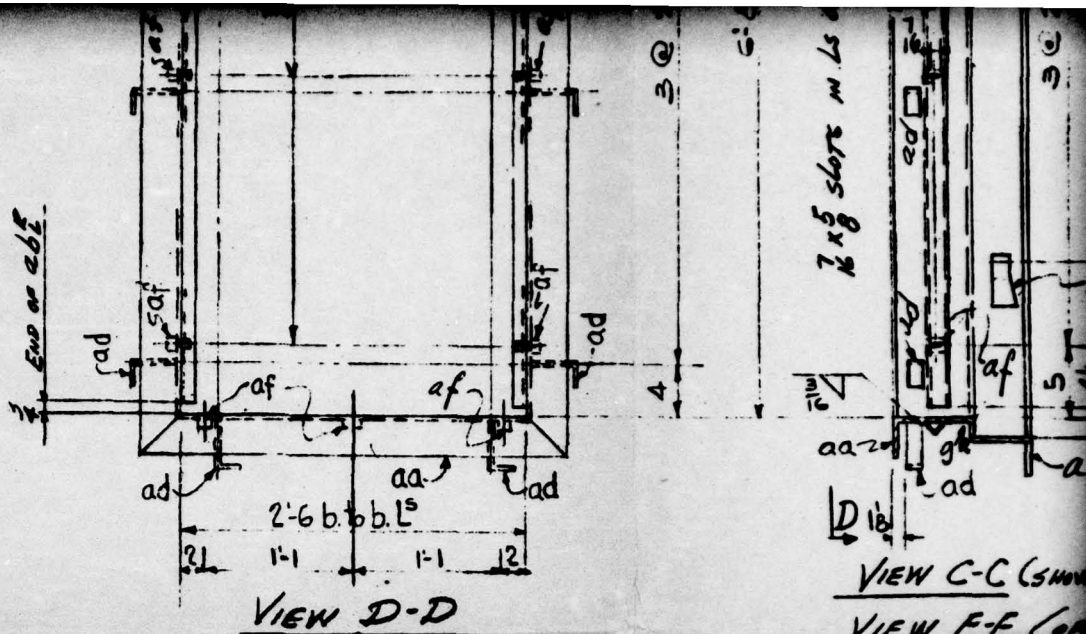


FIG. A2.61

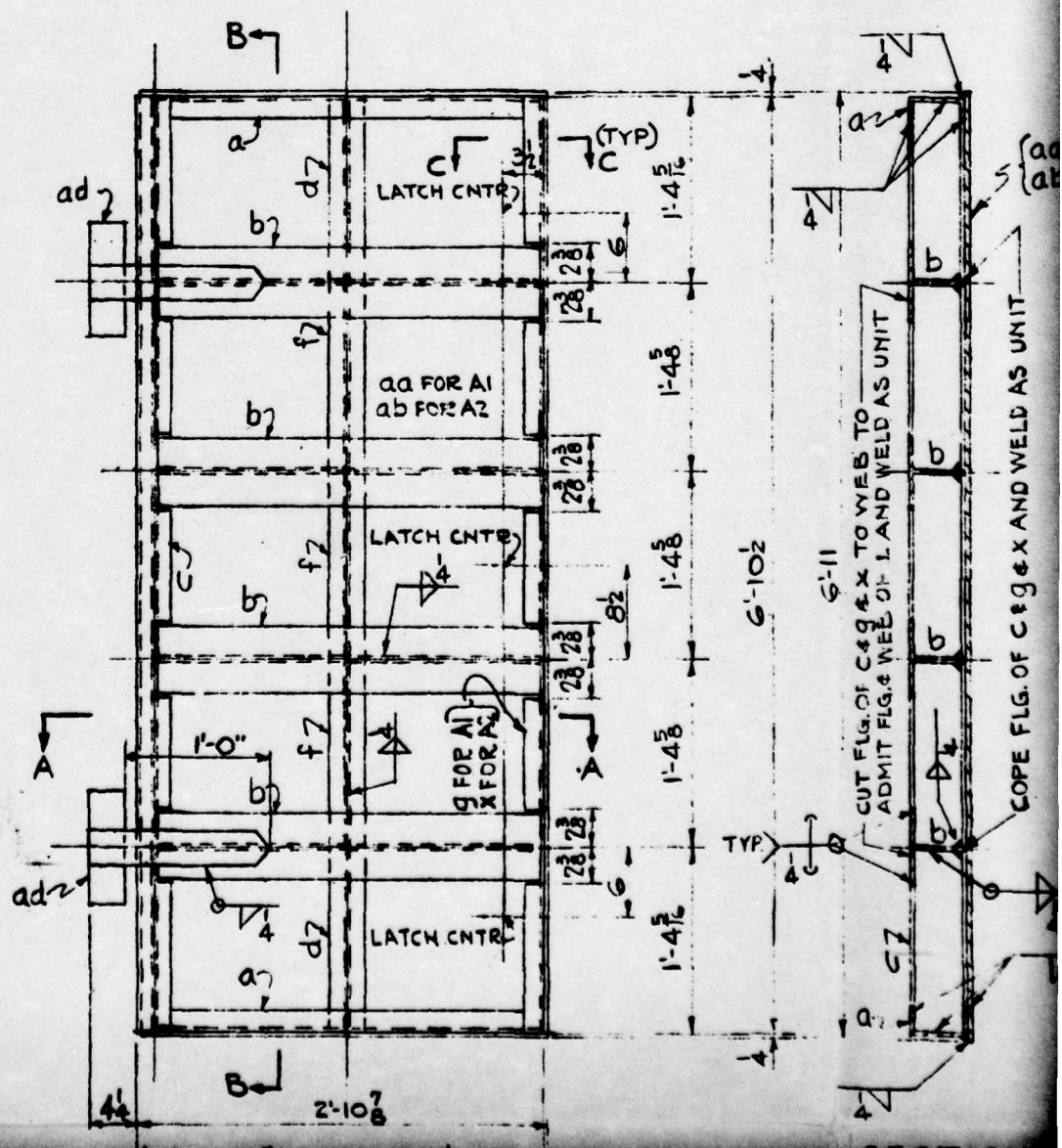
DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	WEIGHT	LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH PATTERN
3x 3 1/2 x 3/8 (MITRE)	7'-3	x <sup>L</sup>	A7	L	RL4	3				
do	3'-1	aa	do		do					
1x 1 x 3/16 (MITRE)	6'-7 1/4	ab <sup>R</sup>	AT MERCH. BAR QUAL							
	6'-7 1/4	ab <sup>L</sup>								
	2'-6	ac								
4x 4 (BEND)	0'-6	ad	AT MERCH. BAR QUAL		ML-6-VI					
1x 1 x 1/2	0'-1	af	do							

Ship July 72





[REDACTED]

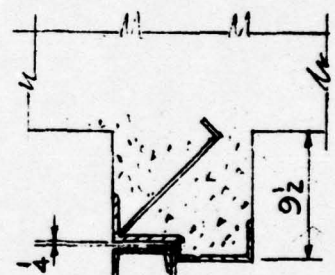
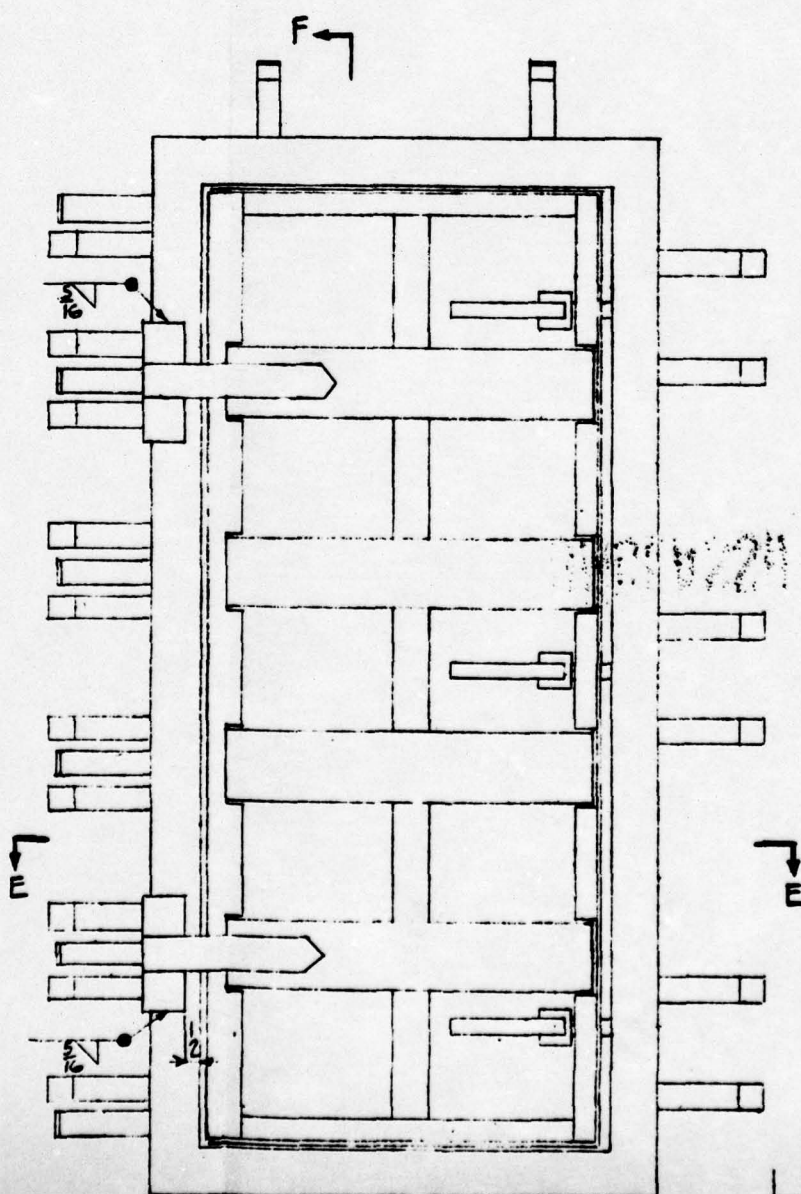
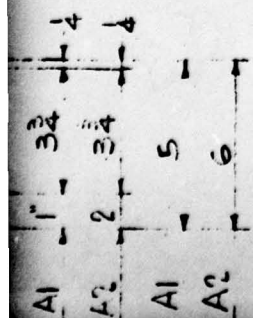
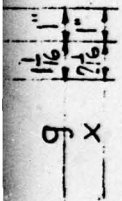






3

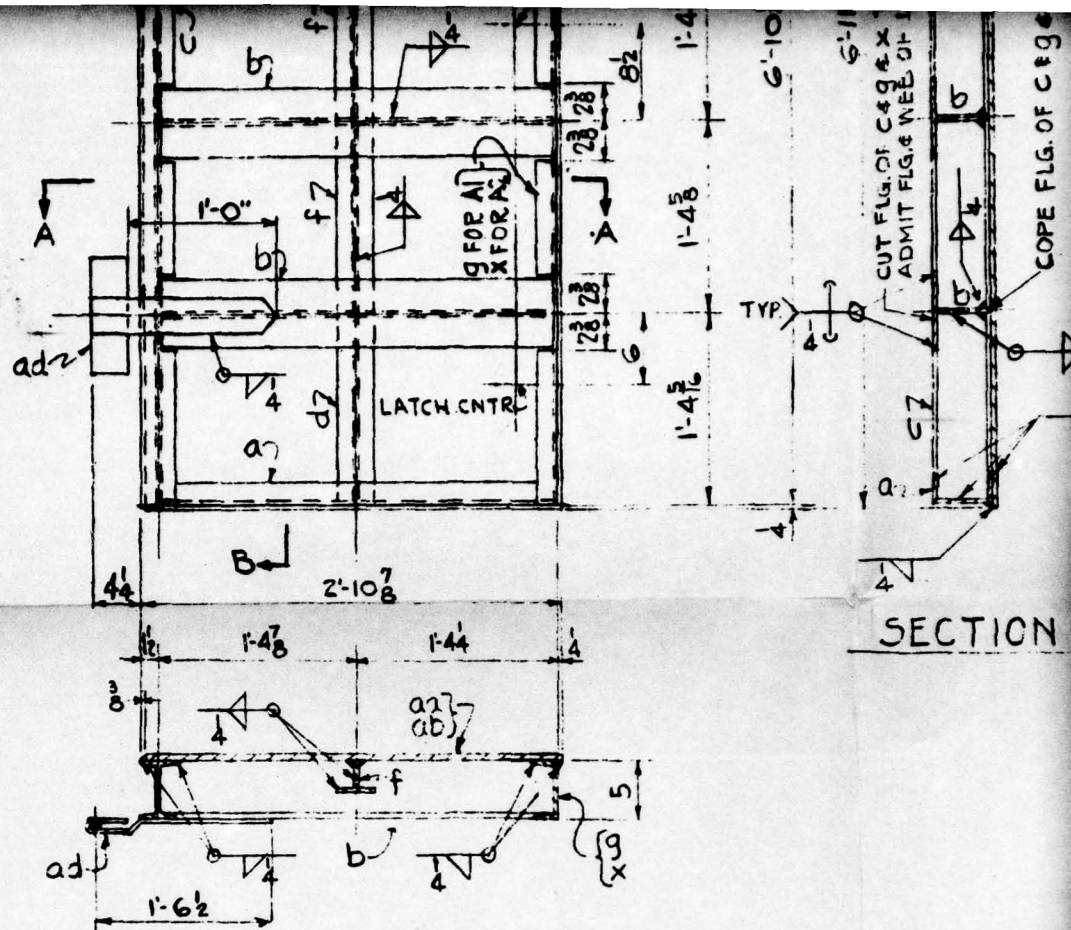
ONLY



DOORS A1 & A2

DOOR FRAMES DF1 & DF2



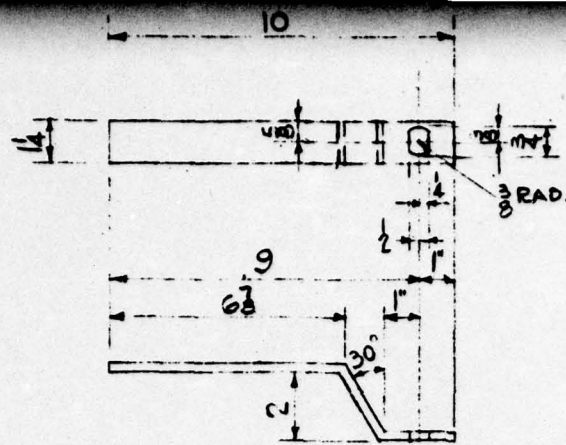


SECTION A-A

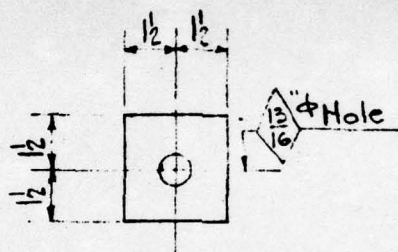
STRESS RELIEVE { ONE DOOR A1  
ONE DOOR A2

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	WEIGHT	Pile				LINE	SHIP. PCS.	DETAIL PCS.
1	1		DOOR FRAME		A1	A7	LBL		3				18	1	A1
2	1		do		A2	A7	LBL		1				19	1	A2
	4		3L 9.0	2'-8 1/2	a	A7	L	RL3					20	3	BA
	8		ST 5 I 12.7 (10 I 25.4)	2'-8 1/2	b								21	4	ST
	2		3 I 10	6'-10 1/2	c								22	3	I
	4		ST 3 I 6.25 (6 I 12.5)	1'-3 3/4	d								23	12	WA
	6		do do	1'-4 1/2	f								24	55*	SH
	1		3L 9.0	6'-10 1/2	g								25		
	6		BAR 1 1/2 x 4 (BEND)	0'-11 1/2	k	AT MERCH. BAR		RL4					26		
	6		BAR 3 x 1	0'-3	m	A7		ML 6/11					27		rel
	6		BAR 1 1/2 x 2	0'-9 1/2	n	AT MERCH. BAR		RL4					28		
	12		BAR 1 1/2 x 4	0'-3 3/4	p			do					29		
	3		BAR 1 1/2 x 1	0'-6 1/2	s			ML 6/11					30		
	3		BAR 1 1/2 x 2	0'-6 1/2	y								31		
	2		3 MM BOLT w/ H. NUT	0'-4	w	COMM. BOLT							32		
	4		3L 9.0	6'-10 1/2	x	A7		RL3					33		
													34		

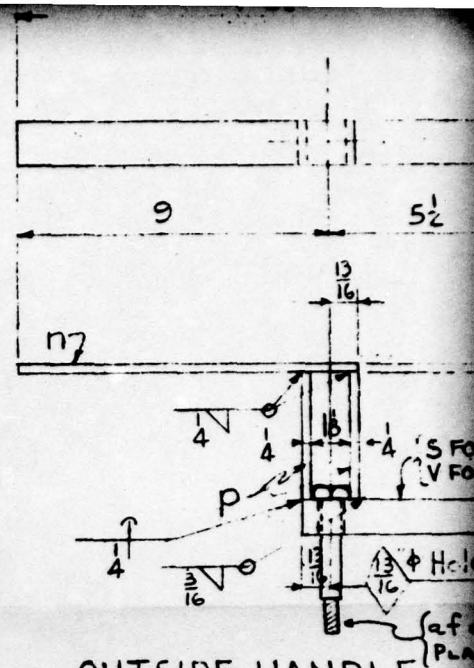




INSIDE HANDLE K



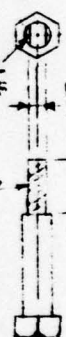
BEARING PLATE m



OUTSIDE HANDLE

FLATS TO BE PARALLEL TO SHORT DIAMETER OF BOLT HEAD.

GRIND FLAT ON TWO SIDES



BOLT w FOR A1  
BOLT af FOR A2

FIG. A2.62

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT	LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION
P. 2'-10 1/2 x 1/16	6'-11	aa	A7	L	RL4	35			
P. 2'-10 1/2 x 1/16	6'-11	ab	A7			36			
AR 1 1/2 x 3/8	0'-9	ac	AT MERCH. BAR Q'AL.			37			
ANLEY H DB937						38			
WYE HINGE (CUT)	1'-6 1/2	ad	RO 23124			39			
H.H. BOLT w/H. NUT	0'-5	af	Comm. Qual.			40			
WASHERS 4TH. 1/2" HOLE			Comm. Qual.			41			
SHOP WELD E7010-11-20						42			
						43			
						44			
						45			
						46			
						47			
						48			
						49			
						50			
						51			

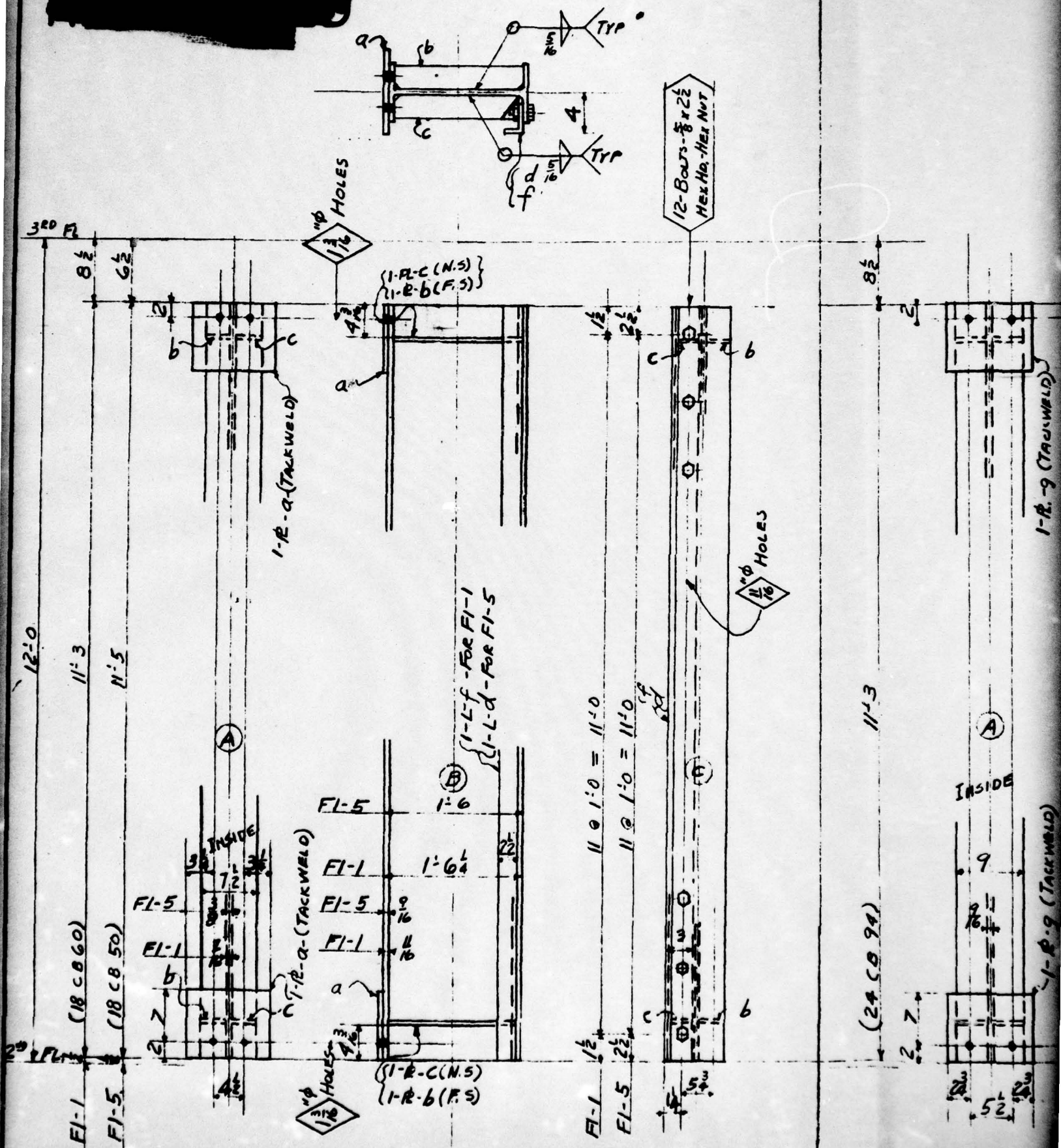
Parts A1 & A2 to be stress  
relieved after welding

Ship July 27th 1950

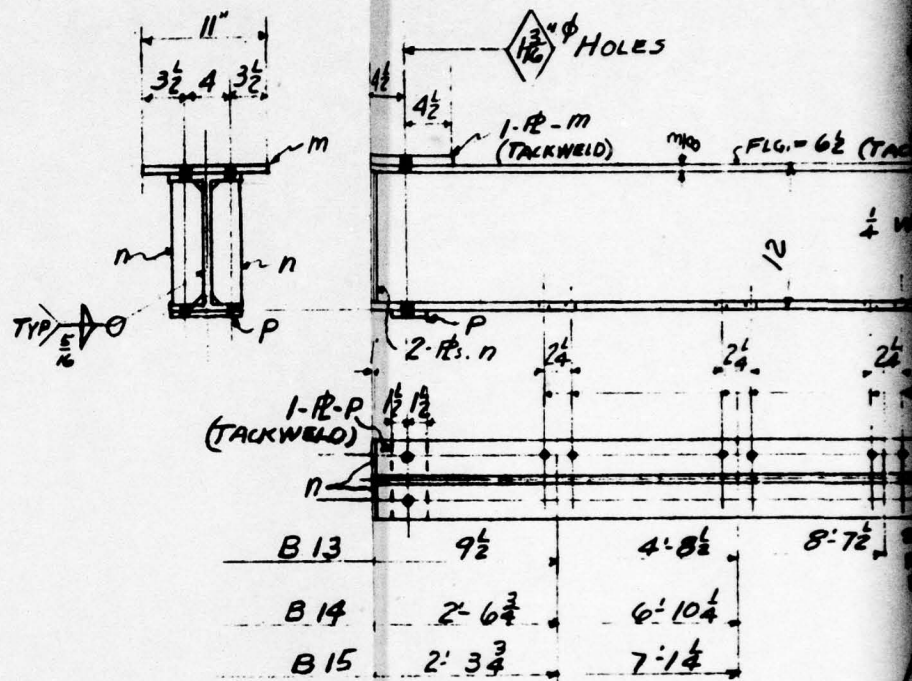
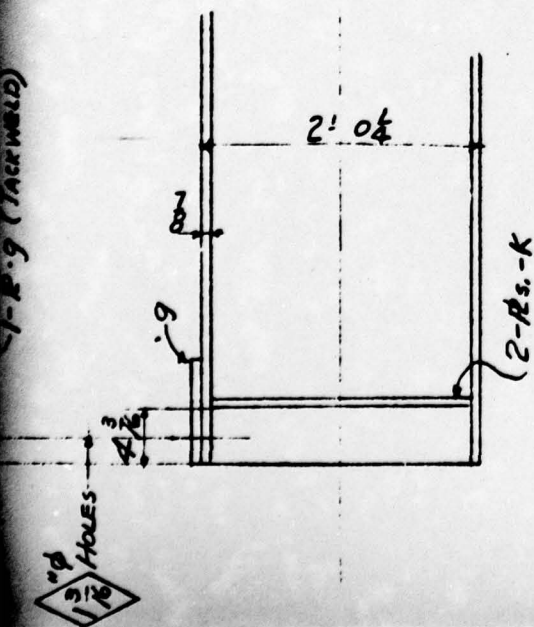
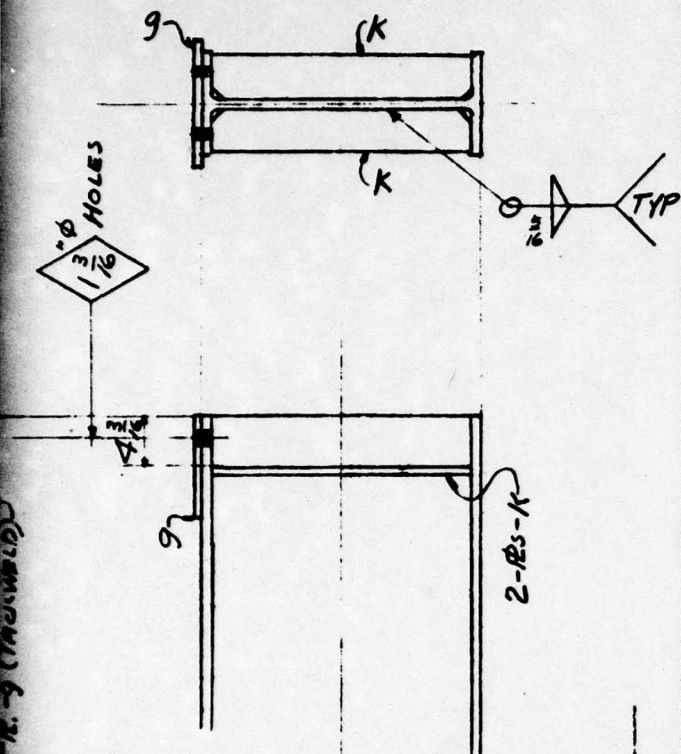




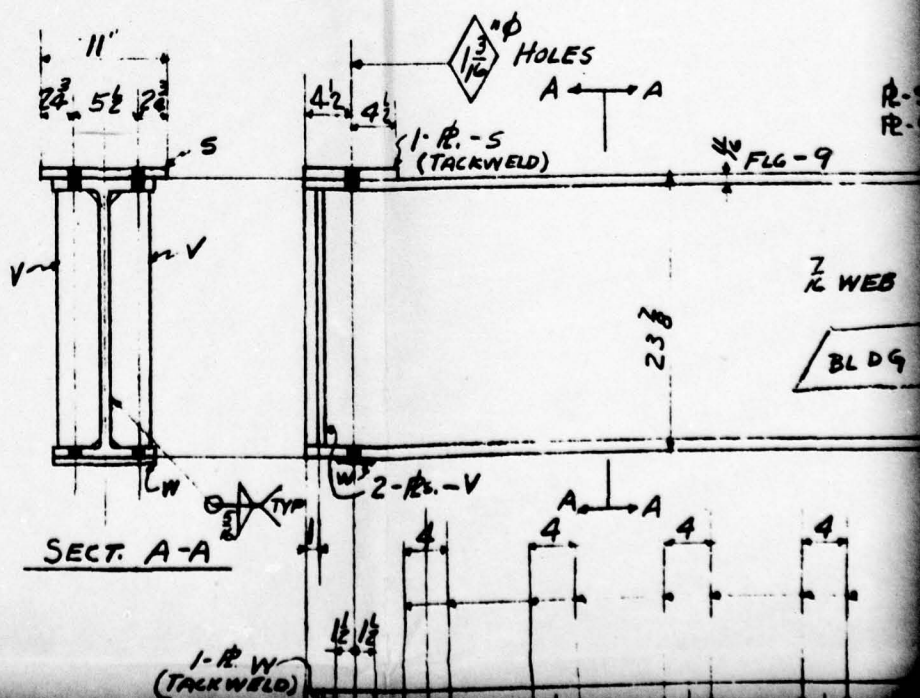
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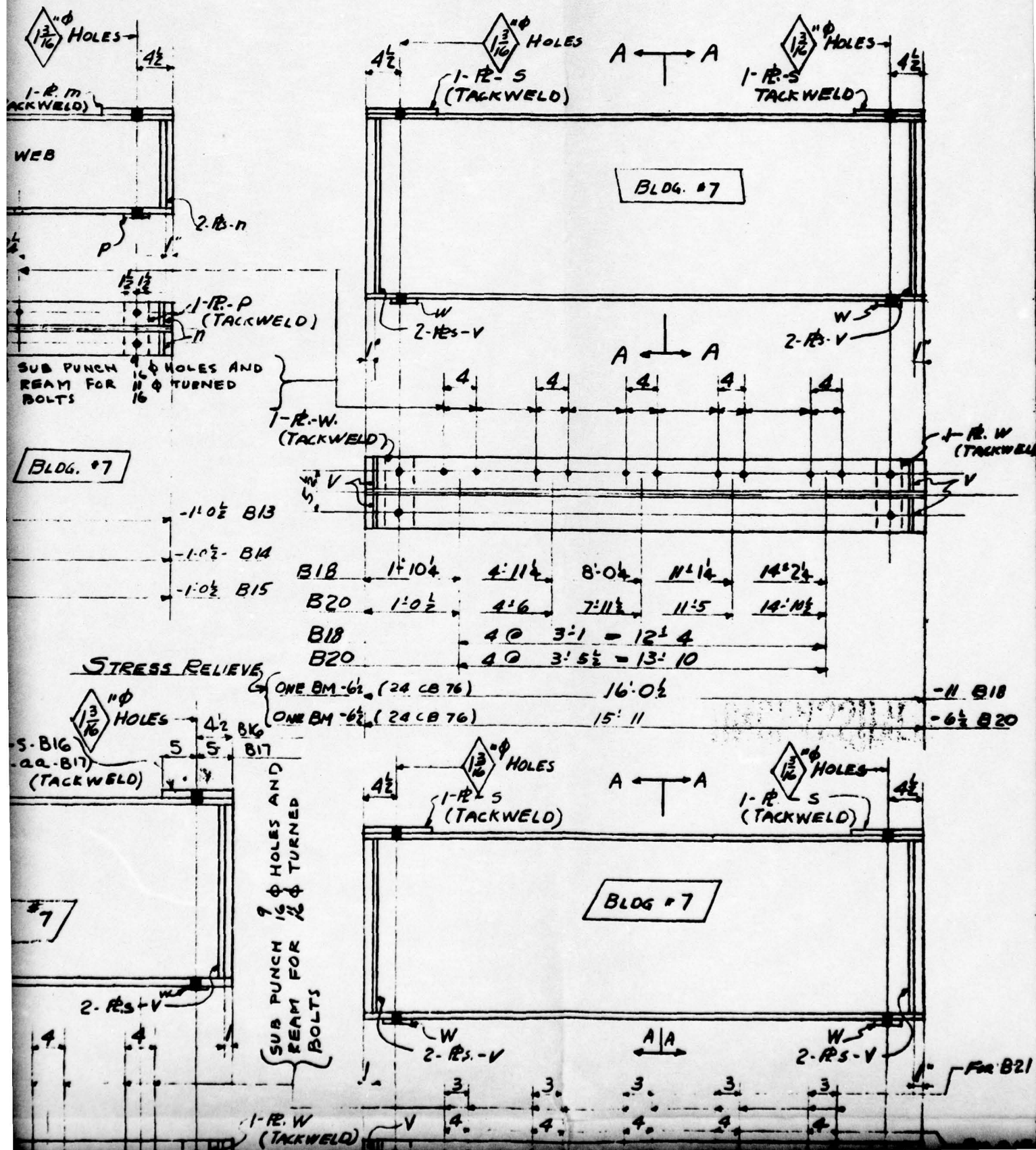


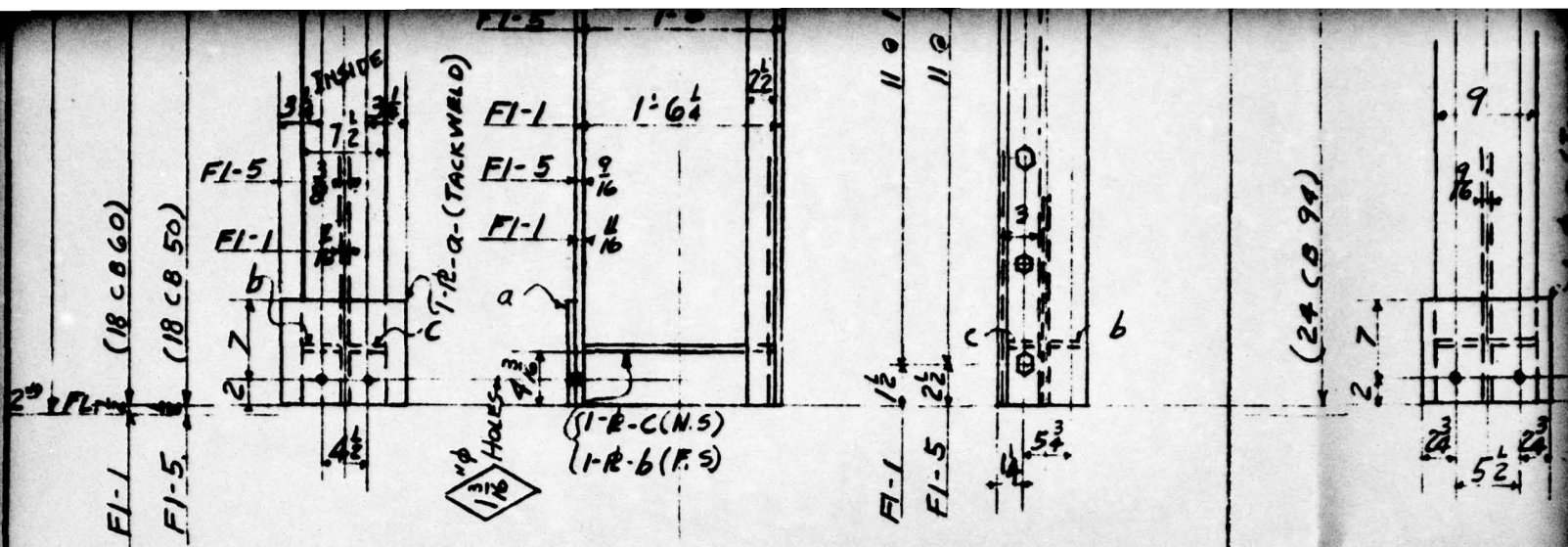




<u>STRESS RELIEVE</u>	ONE BM - 6 1/2 (12 CB 27)	9' 5"
	ONE BM - 6 1/2 (12 CB 27)	9' 5"
	ONE BM - 6 1/2 (12 CB 27)	9' 5"







STRESS RELIEVE { 1-POST FI-5 (SHOWN.)  
1-POST FI-1 (OPP.) } BLDG. #1

STRESS RELIEVE { 1-POST FI-5 (SHOWN.)  
1-POST FI-1 (OPP.) }

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	MILL LIST	FILE	LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION
1	1		18 CB 50	11 1/5	FI-5	A7	SBS		3	18		4	R 9 X
2	1		18 CB 60	11 1/3	FI-1		SBS		1	19		4	STIFF
3										20		4	STIFF
4										21		1	1-3



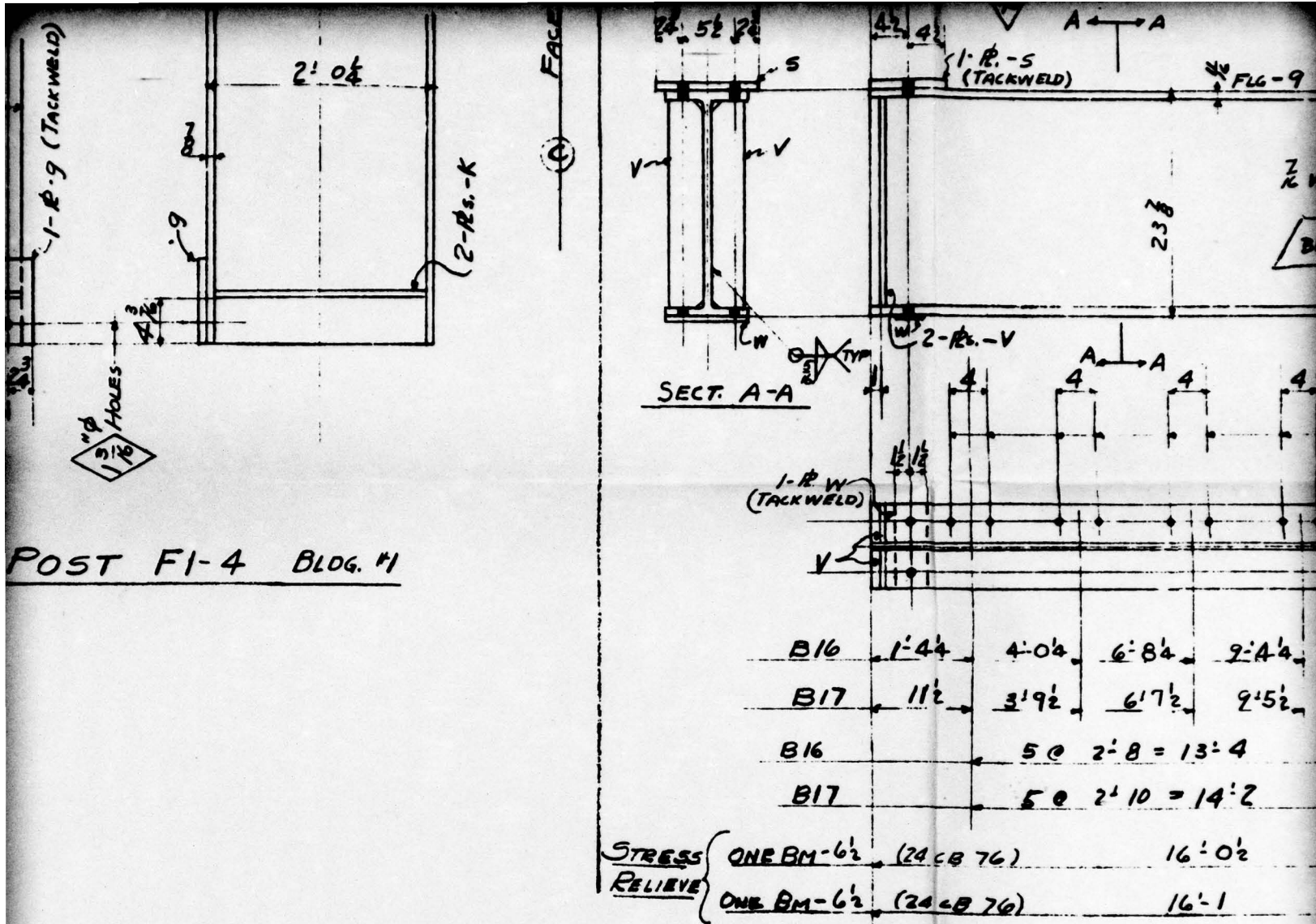
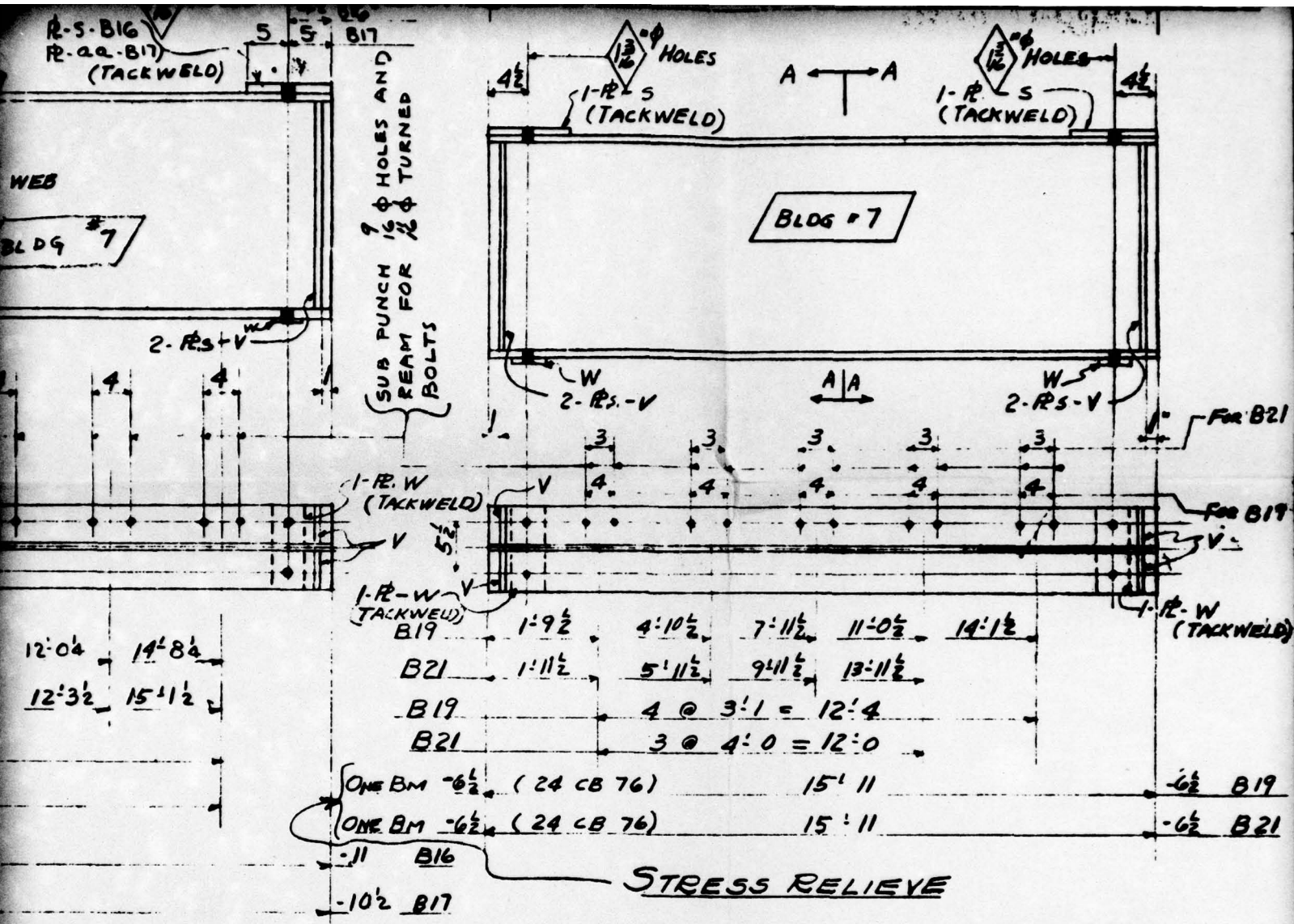


FIG. A2.63

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	LINE	SHIP PCS.	DETAIL PCS.	DESCRIPTION	LET PAT.
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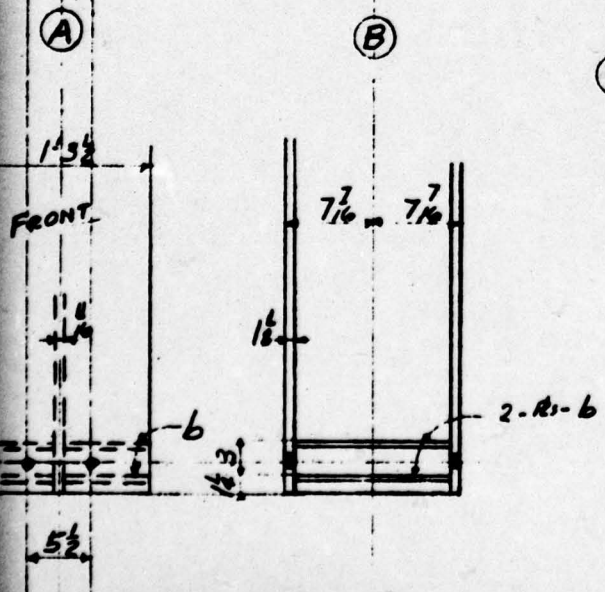
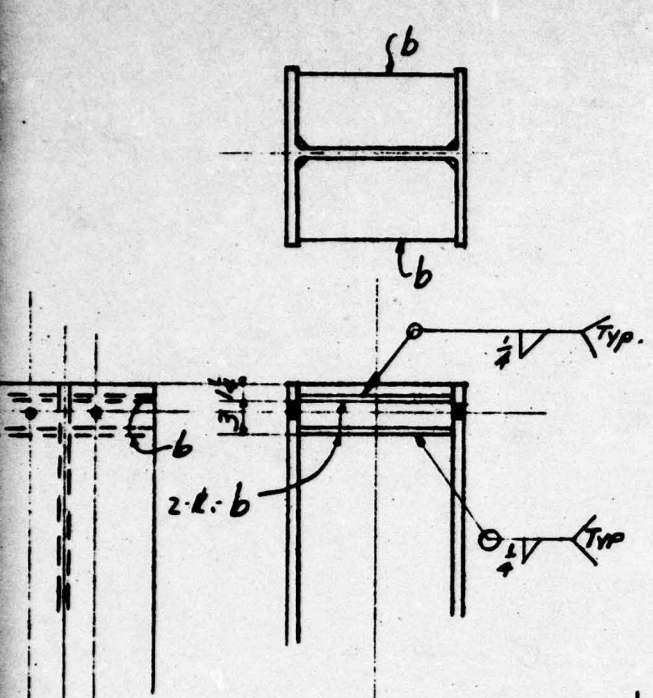
UNCLASSIFIED

LENGTH OR PIECE NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT
F1-1, F1-4 and Beams				
B16, B17, B18, B19, B20				
is Relieved After				

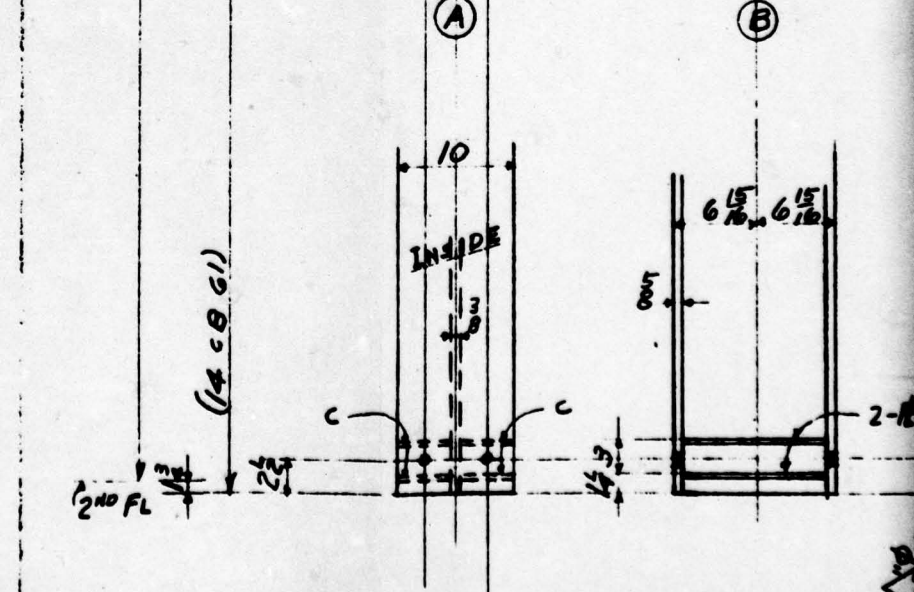
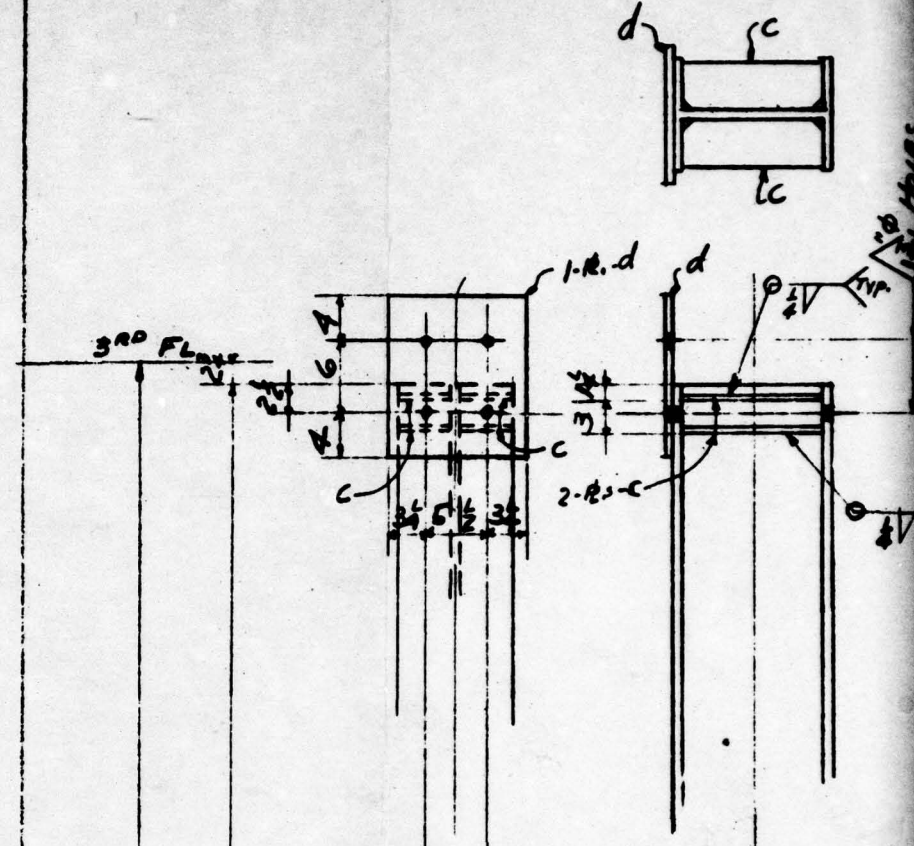
1			
NO.	DATE	BY	REVISION
HOLES AS NOTED			PAINT 1- SHOP COAT



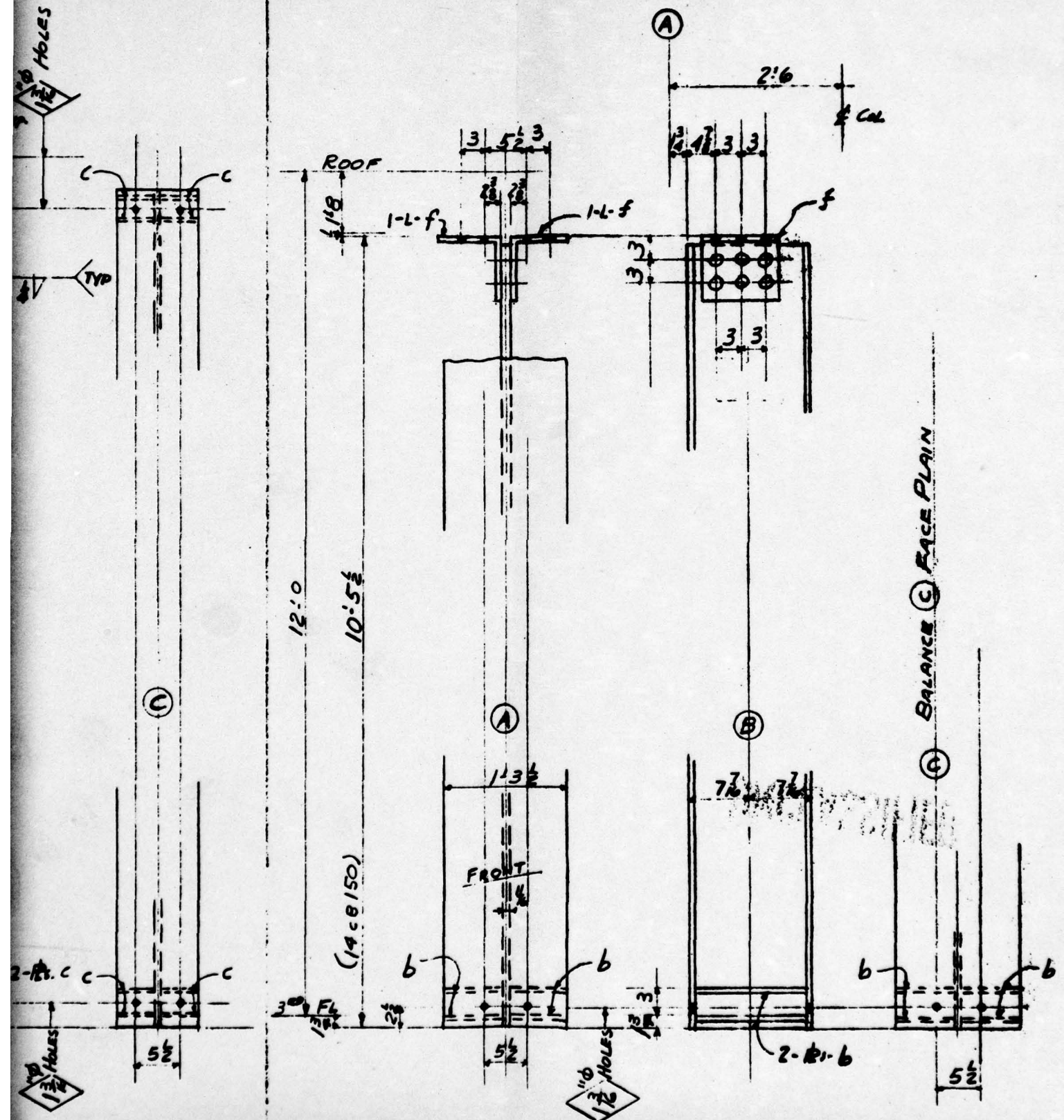




FACE C SAME AS FACE A

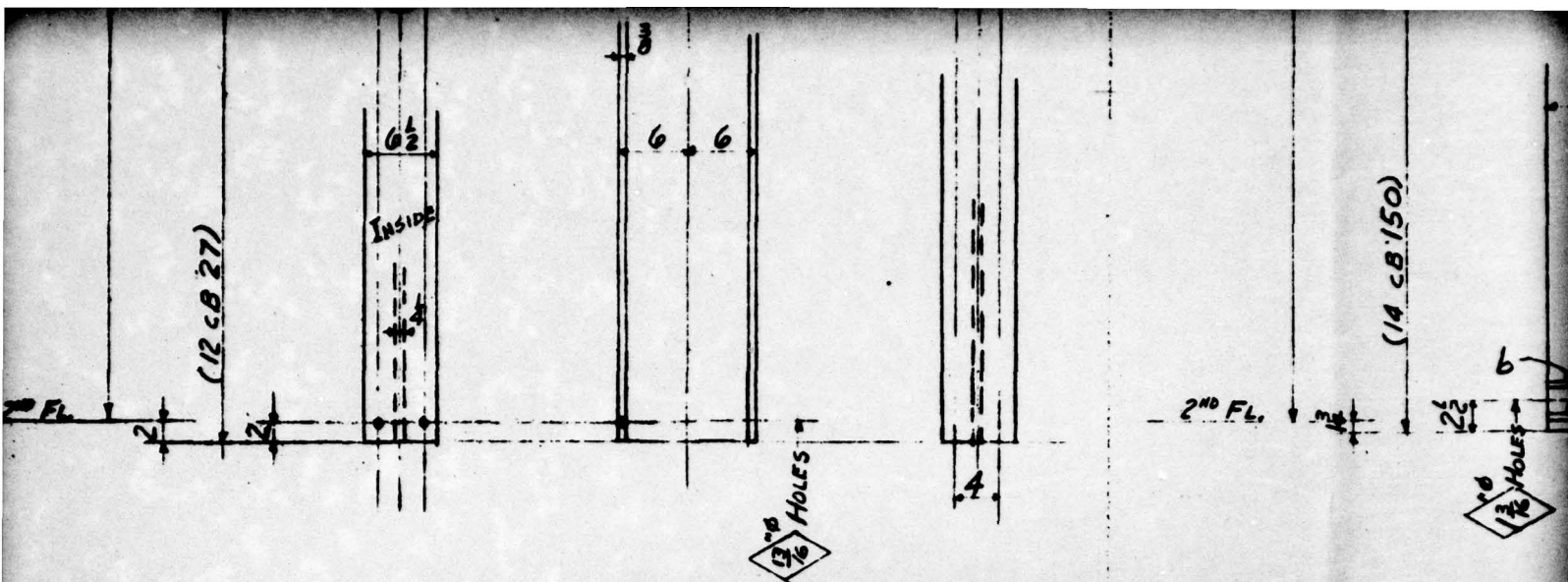


8-POSTS FA 13



2-POSTS FA14  
(STRESS RELIEVE)



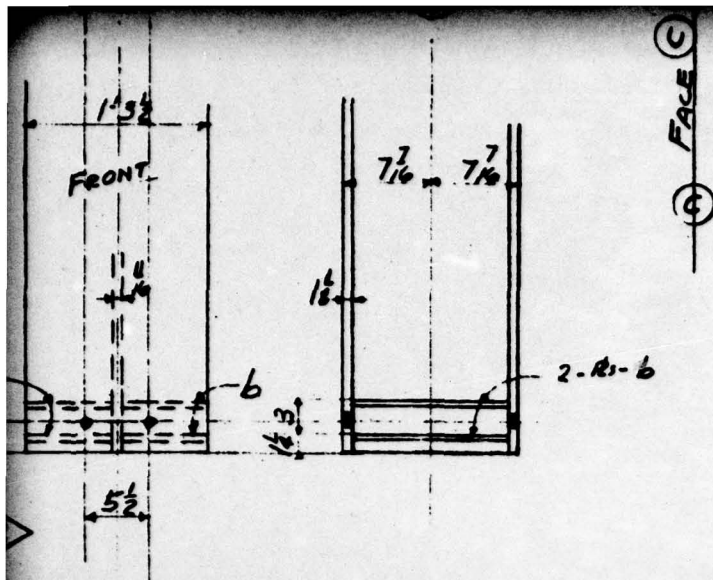


4 POSTS FD13

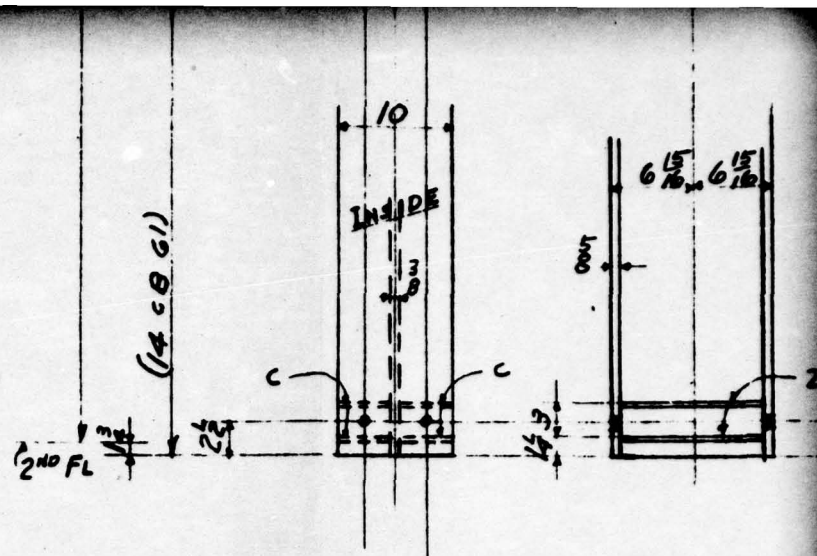
2-POSTS F  
(STRESS R)

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	MARK	P L E										LINE	SHIP. PCS.	DETAIL PCS.	
									1	2	3	4	5	6	7	8	9	10				
1	4		12 CB 27	11' 11 1/2"	FD13	A7	S	ML 4-18	4										18		4	R 10
2	2		14 CB 150	11' 11"	FA12		SBS	ML 3/29	2										19		24	STIFF
3																			20		64	STIFF
4	8		14 CB 61	11' 11"	FA13		SBS	ML 4/6	8										21		8	PL 12
5	2		14 CB 150	10' 5"	FA14		SBS	ML 3/31	2										22		4	L 8x
6																			23			
7																			24			
8																			25		56	LB. S
9																			26		12	SHOP
10																			27			
11																			28		Posts M	
12																			29		5 Eress	
13																			30			
14																			31			
15																			32			
16																			33			
17																			34			



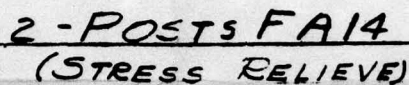


FA12  
(STRESS RELIEVE)



8-POSTS FA13  
(STRESS RELIEVE)

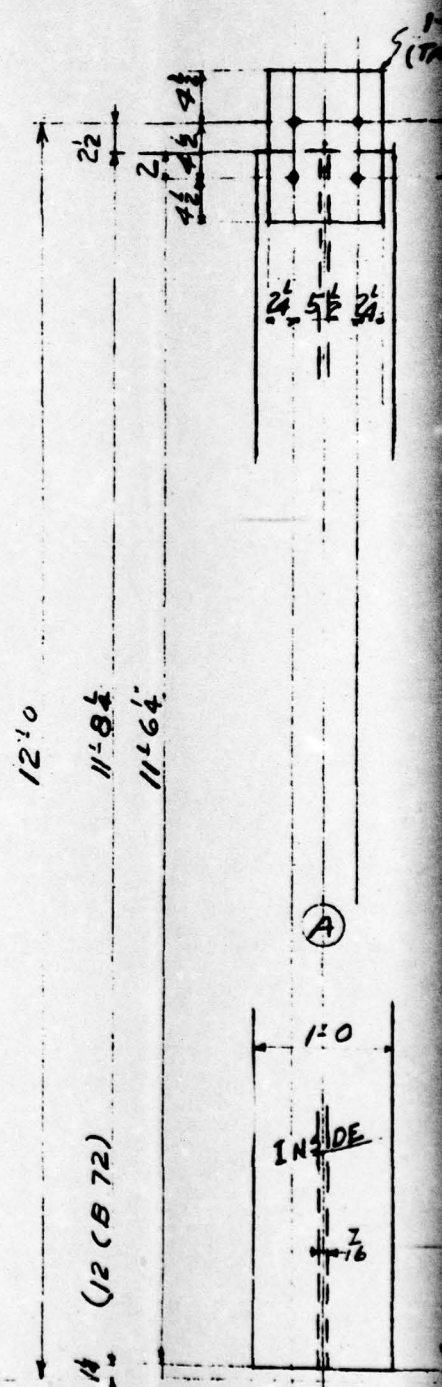
FIG. A2.64



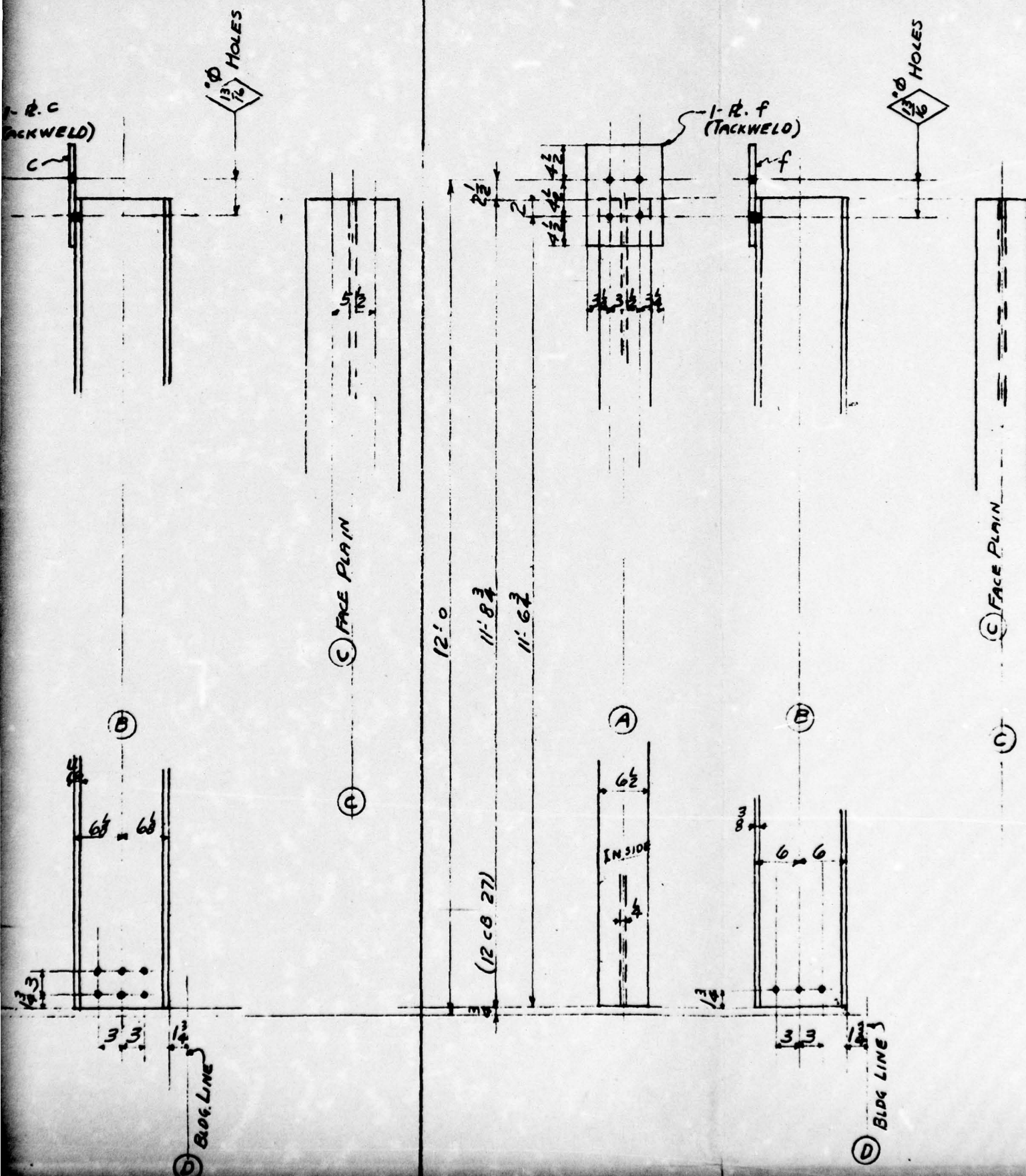
**UNCLASSIFIED**

1			
NO.	DATE	BY	REVISION
HOLES	1 1/2" UNLESS NOTED		PAINT 1-SHOP COAT
RIVETS	1" Ø		TT-P-86 RED LEAD BASE INSEED ON READY MIXED

**[REDACTED]**

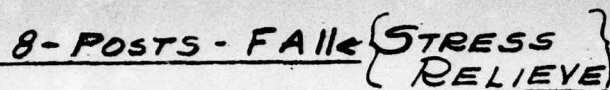












2-POSTS FD 10

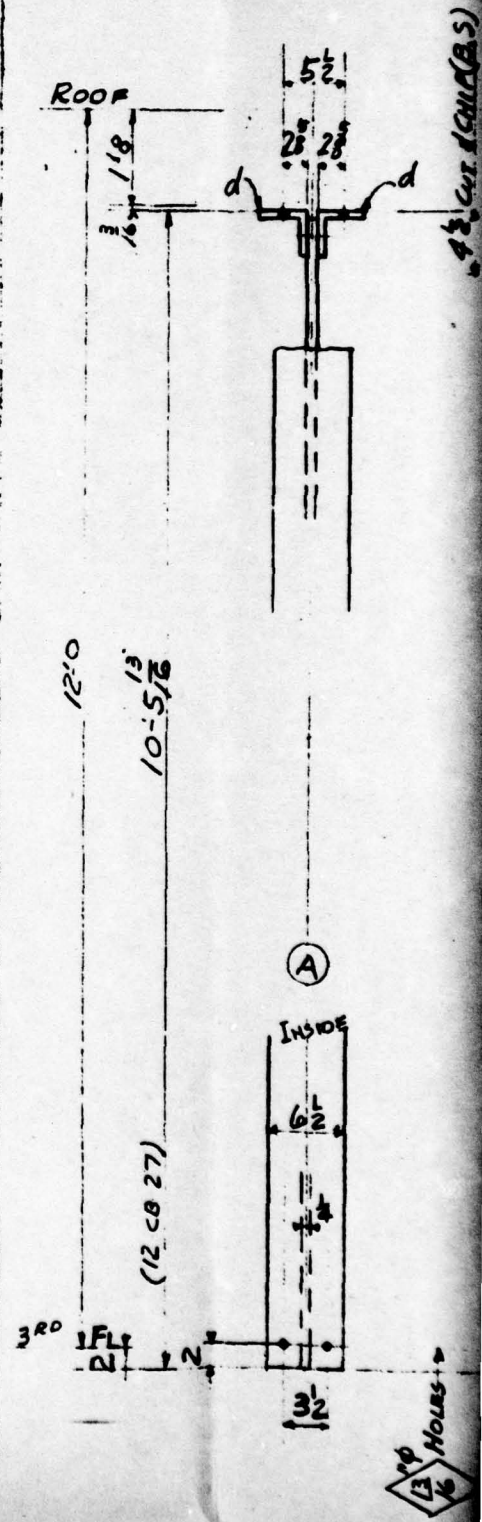
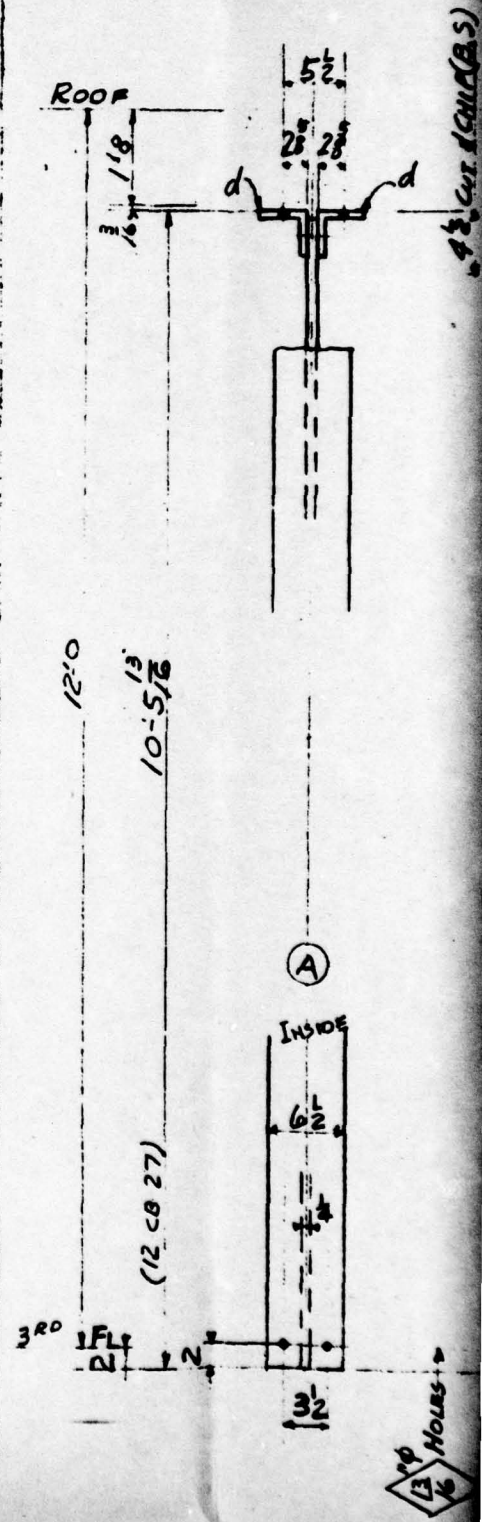
LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT	PILE												LINE	SHIP. PCS.	DETAIL PCS.
									1														
1	8		14 CB 61	11' 8	FA 11	A7	SBS	ML 2-4/5 6-8/16	8											18		8	R 12
2	2		12 CB 72	11-8 1/2	FD 10		S	ML 2/5	2											19		32	Str 10
3	4		12 CB 27	11-8 3/4	FD 11		S	1" ML 2-4-18 3-20 4-20	4											20		4	R 10
4	2		12 CB 72	11' 11 1/2	FD 12	↓	S	ML 4/15	2											21			
5																				22		4	R 10
6																				23			
7																				24			
8																				25		26	LBS.
9																				26			
10																				27			
11																				28		Posts.	P
12																				29			W
13																				30			
14																				31			
15																				32			
16																				33			
17																				34			



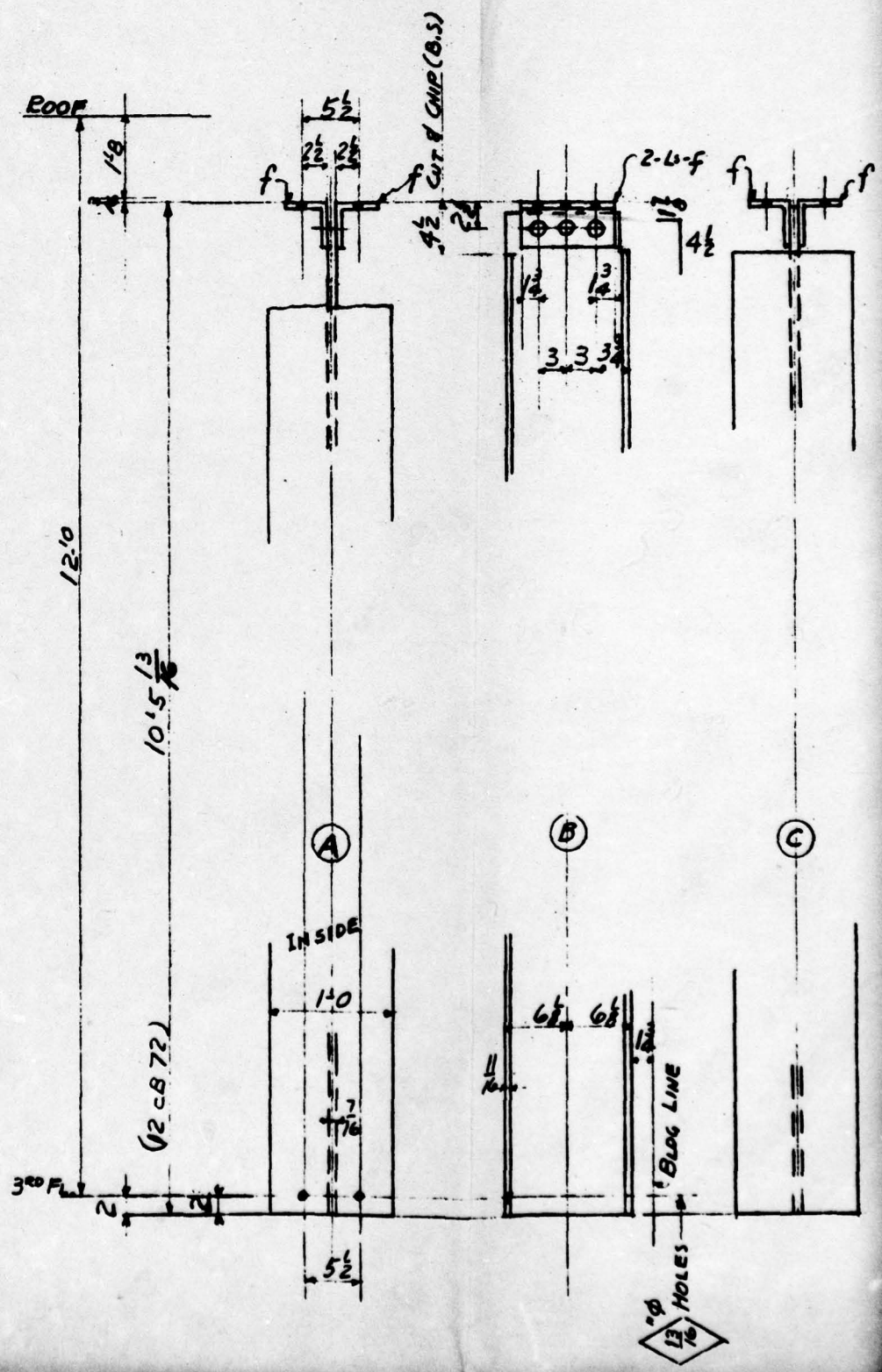
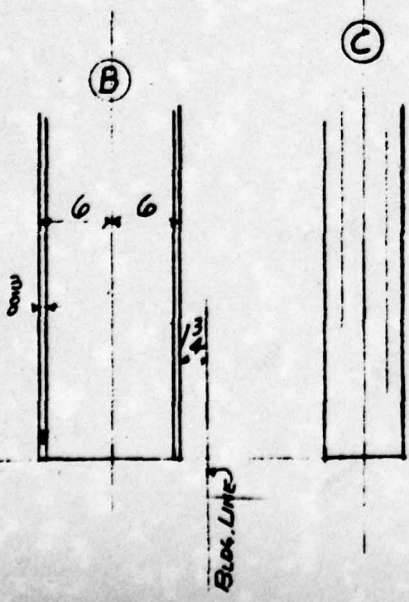
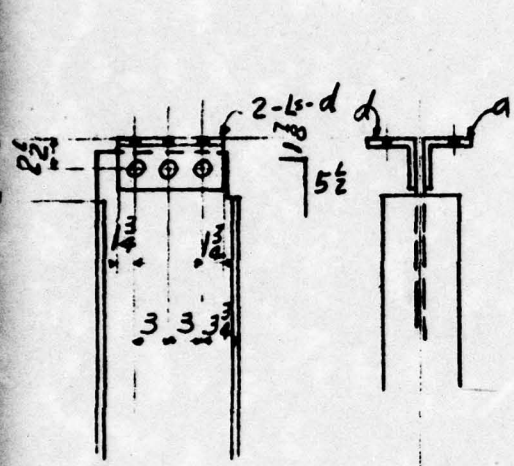


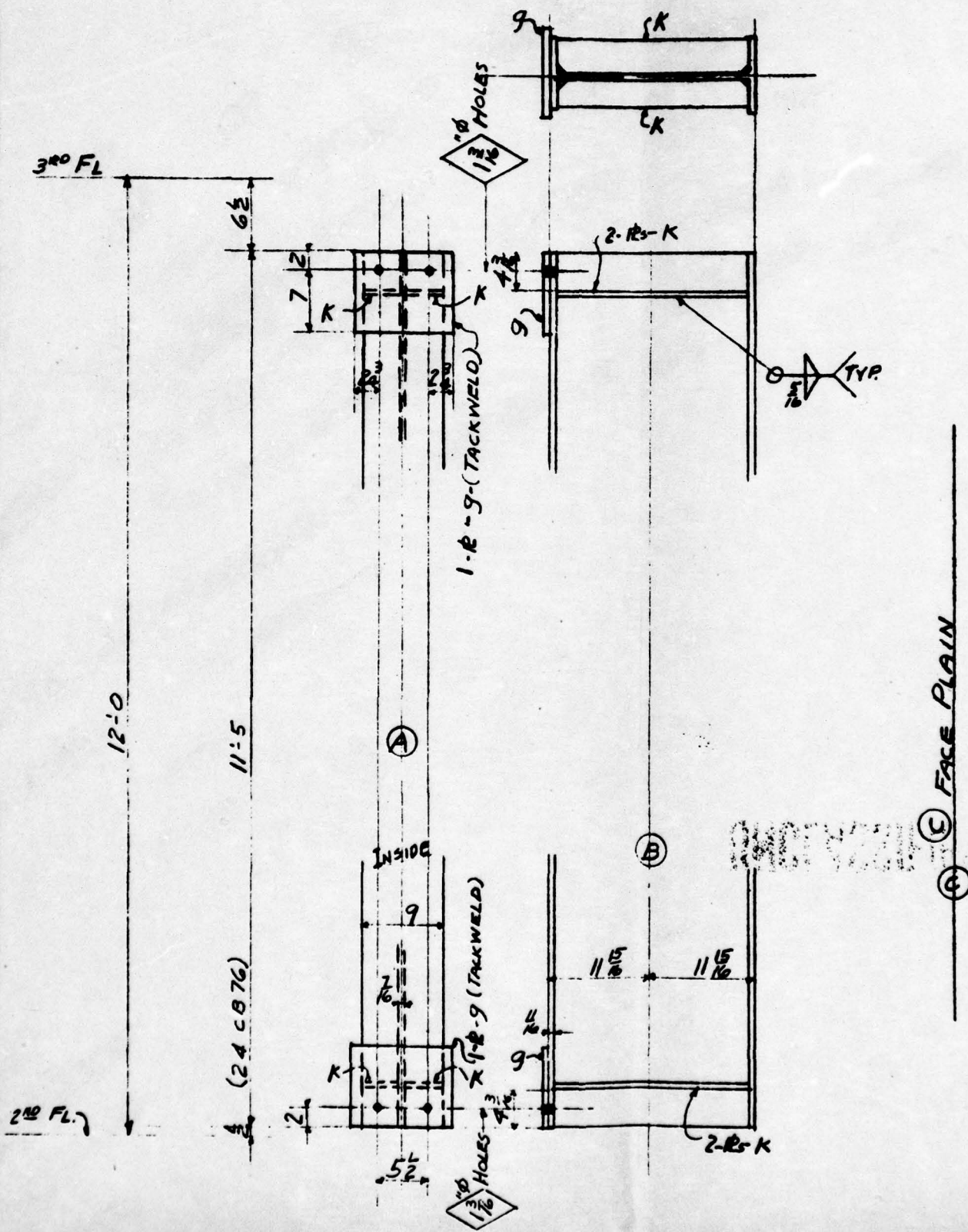


[REDACTED]

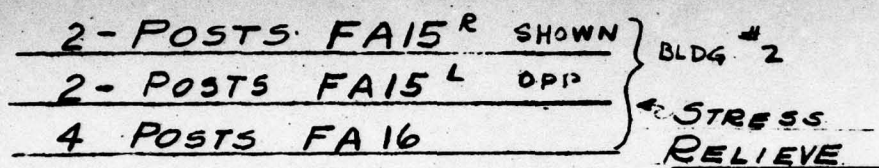








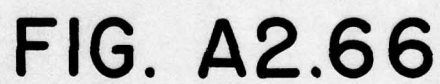




LINE	SHIP. PCB.	DETAIL PCB.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATEL.	DEPTH.	WEIGHT	FILE											LINE	SHIP. PCB.	DETAIL PCB.	
									1	2	3												
1	2		14 CB 61	10' 4 <sup>3</sup> / <sub>4</sub>	FA15 <sup>R</sup>	A7	SBS	ML <sup>4</sup> / <sub>5</sub>	2											18		12	L 8x
2	2		14 CB 61	10' 4 <sup>3</sup> / <sub>4</sub>	FA15 <sup>L</sup>		SBS	ML <sup>4</sup> / <sub>6</sub>	2											19		4	L 8x
3																				20		32	STIR
4	4		12 CB 27	10' 5 <sup>1</sup> / <sub>4</sub>	FD15		S	1-ML-4-18 2-ML-4-20	4											21		8	L 4x
5																				22		4	L 4x
6	2		12 CB 72	10' 5 <sup>1</sup> / <sub>4</sub>	FD14		S	ML <sup>4</sup> / <sub>15</sub>	2											23		4	R 9x
7	2		24 CB 76	11' 5	F1-2		SBS	ML <sup>3</sup> / <sub>11</sub>							1					24		8	STRIP
8																				25			
9																				26			
10	4		14 CB 61	10' 4 <sup>3</sup> / <sub>4</sub>	FA16	↓	SBS	ML <sup>4</sup> / <sub>5</sub> ML <sup>4</sup> / <sub>6</sub>	4											27		46	LBS
11																				28		66	SMO
12																				29			
13																				30			
14																				31			
15																				32			
16																				33			
17																				34			

Post  
To Be

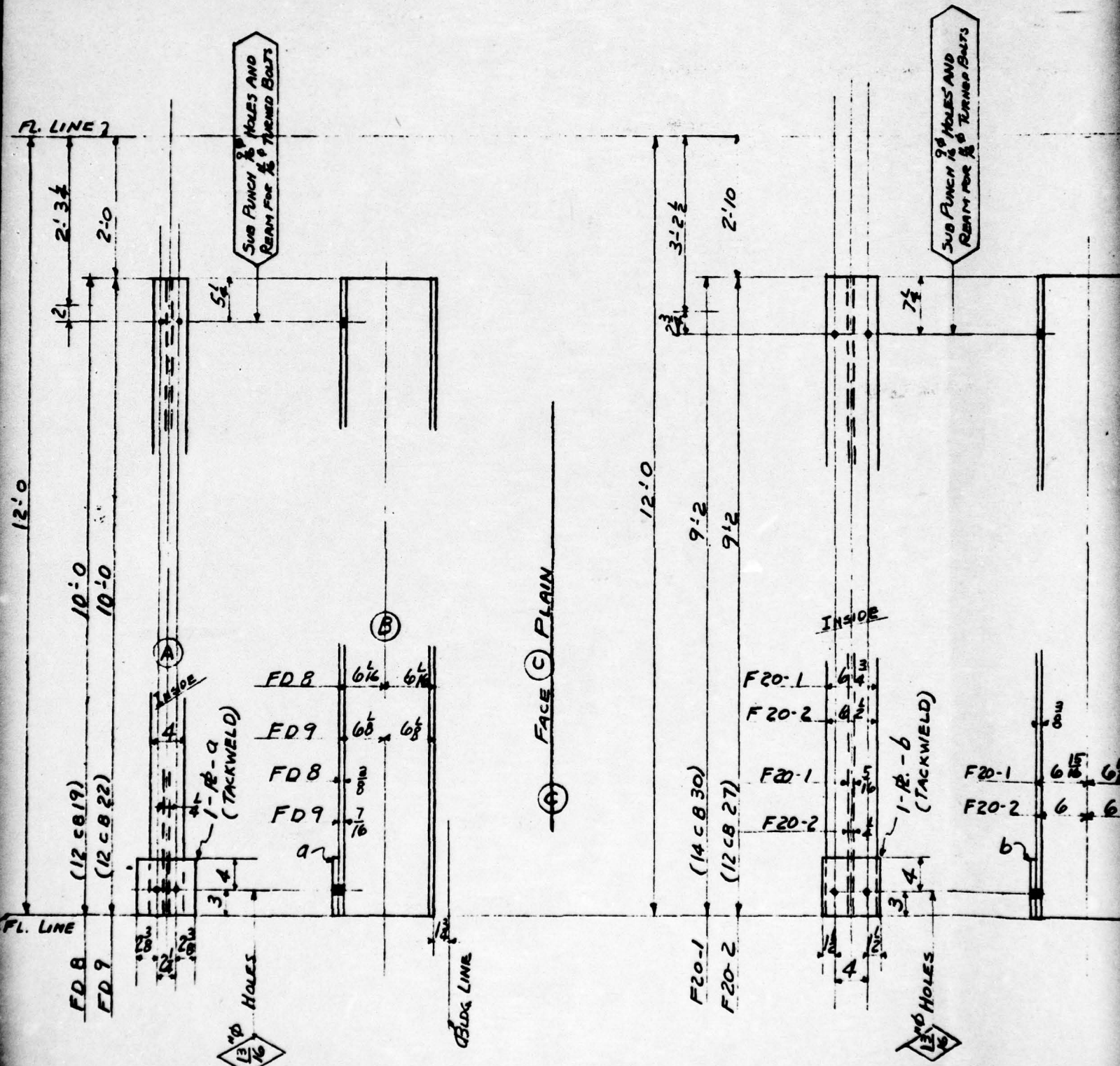




DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT					LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LBS. PAID

1				
NO.	DATE	BY	REVISION	
HOLES	1 1/2" UNLESS NOTED		PAINT 1" SHOP COAT	
RIVETS	1" Φ		TT-P-86 RED LEAD BASE	
REF.			LINSEED OIL READY MIXED	
DATE	DRAWN BY	CHECKED BY	IN CHARGE OF	
MAY 5-50	SLANGEN	GALLAGHER	HOLBROOK	
<p align="center"><b>CONSOLIDATED WESTERN STEEL CORPORATION</b> LOS ANGELES, CALIFORNIA SUBSIDIARY OF UNITED STATES STEEL CORPORATION</p>				
HOLMES & NARVER BUILDING NO 2 & No. 1			ORDER NO. 4835-7	
POSTS			DRAWING NO. 11	

UNDERGROUND



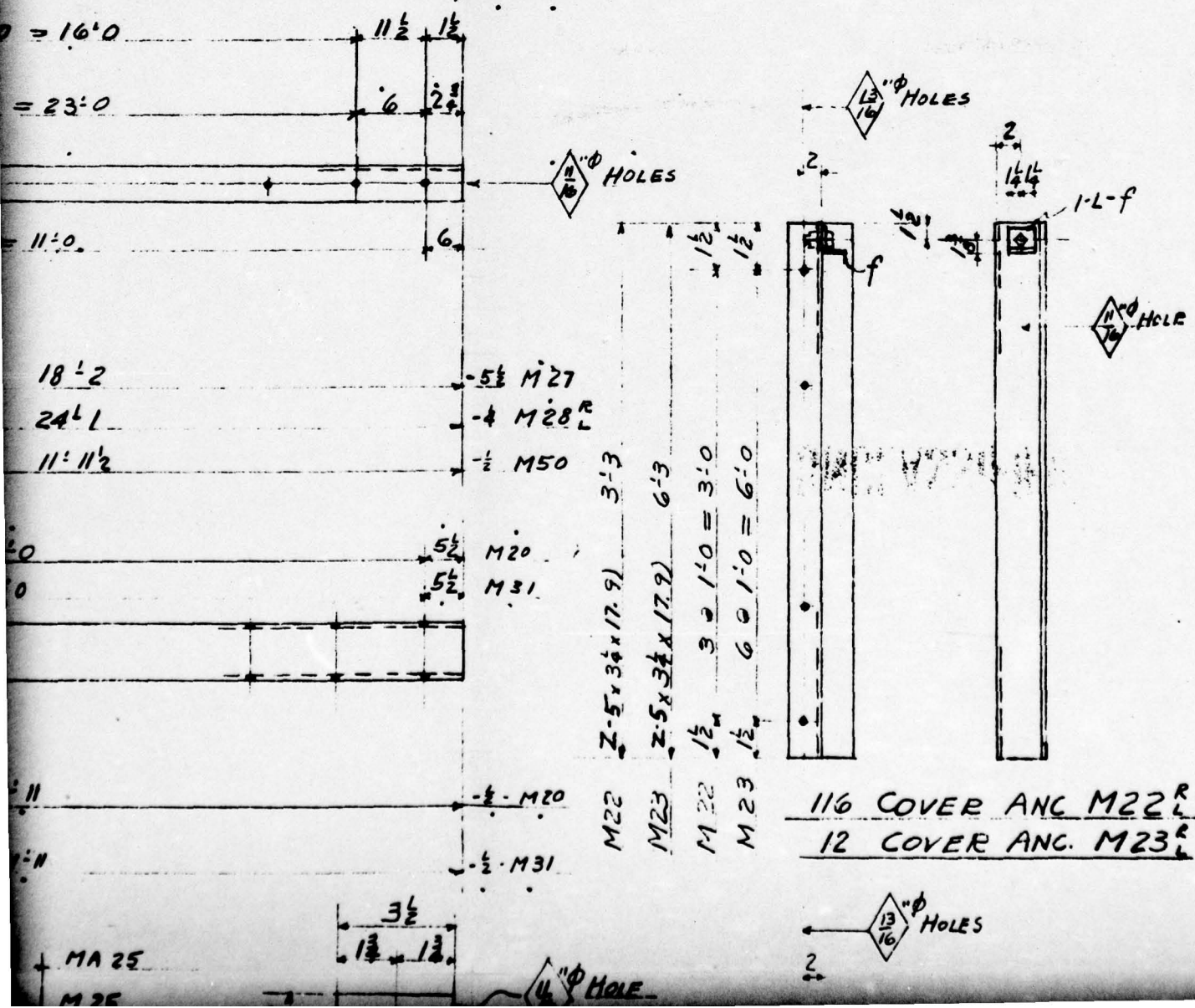
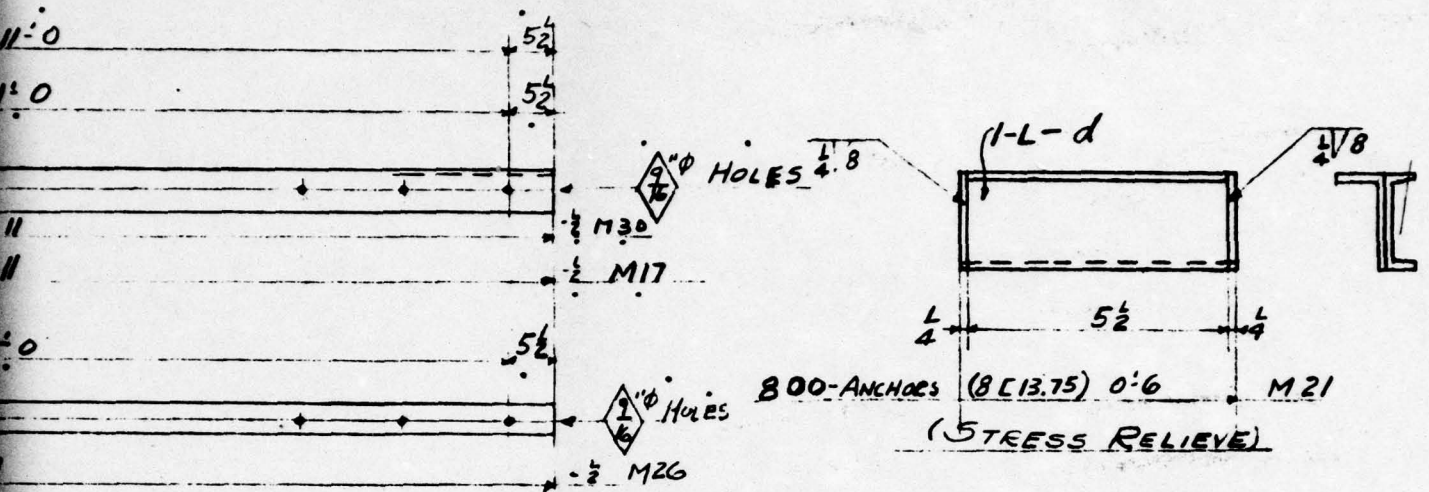
2- POSTS FD 8  
5- POSTS FD 9 } BLOC #7

12- POSTS F20-1  
15- POSTS F20-2 }





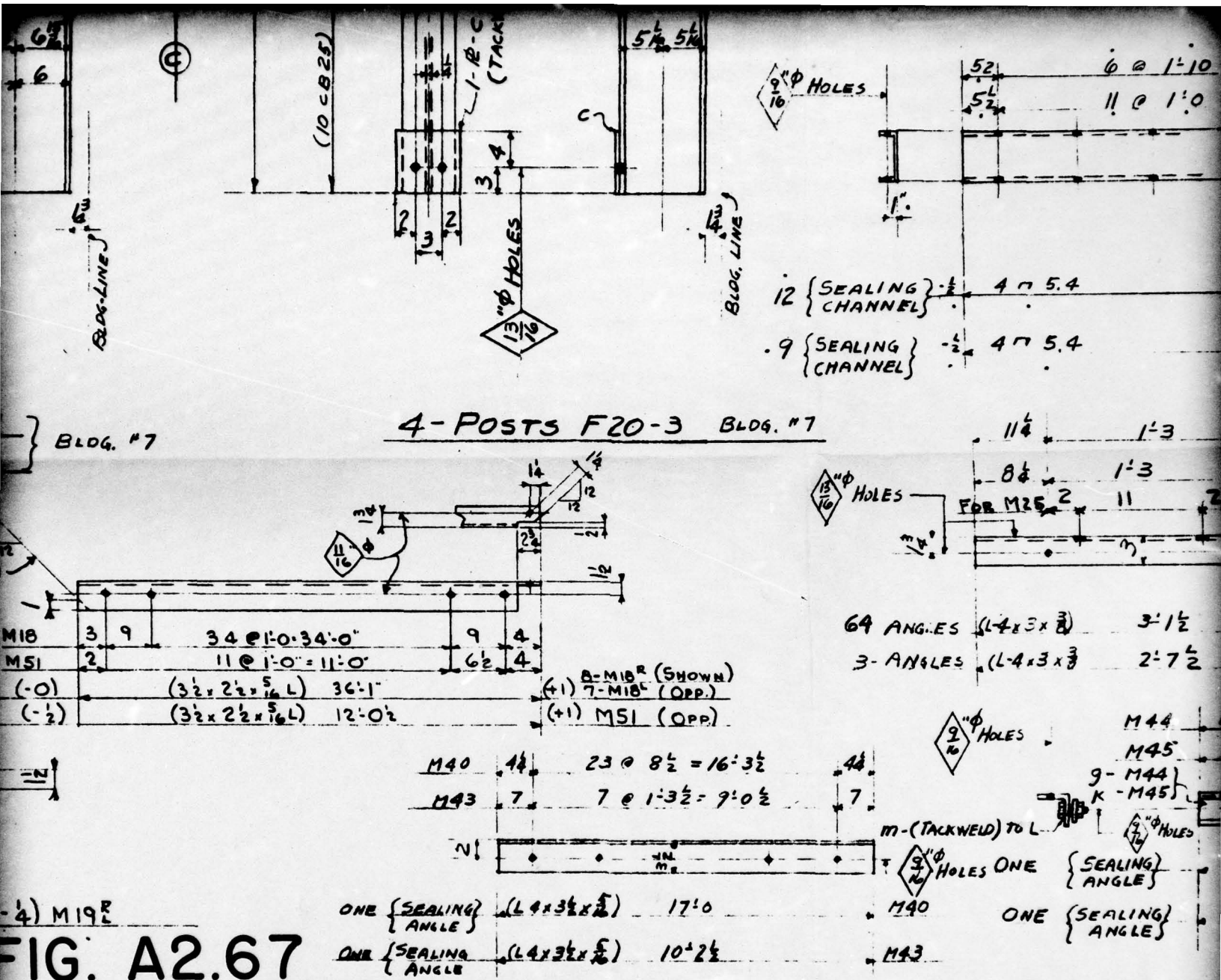
3





LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.		PILE										LINE	SHIP. PCS.	DETAIL PCS.
									1	2	3										
1	2		12CB 19	10' 0	FD8	A7	5						2					18		7	R. 7x
2	5		12CB 22	10' 0	FD9	.							5					19		27	R. 7x
3																		20		4	R. 7x
4																		21	800	L 8x4	
5	12		14CB 30	9' 2	F20-1			ML 4/13					12					22		128	L 2 1/2 x 2
6	15		12CB 27	9' 2	F20-2			ML 4/17					15					23		1	BAR 3x
7																		24		1	BAR 3x
8	4		10CB 25	9' 2	F20-3								4					25		11	BOLTS
9																		26		16	L 3
10	12		L 3 1/2 x 2 1/2 x 5/16	11' 11"	M17								12"					27			
11	8		L 3 1/2 x 2 1/2 x 1/16	36' 1"	M18 <sup>R</sup>								8					28			
12	16		L 3 1/2 x 2 1/2 x 1/16	26' 0"	M19 <sup>R</sup>								16					29			
13	12		C 4-5.4	11' 11"	M20								12"					30			
14	800		8C 13.75	0' 6	M21		5.8.5.						62	62	676			31			
15	116		Z 5 x 3 1/4 x 17.9	3' 3	M22 <sup>R</sup>		5	ML 7-5					116					32		128	BOLTS
16	12		Z 5 x 3 1/4 x 17.9	6' 3	M23 <sup>R</sup>			ML 7/4					12					33		280	LB. SMO
17	8		R. 3 1/2 x 5/16	0' 3 1/2	M54	ATMERN BAR GUN							2	2				34			

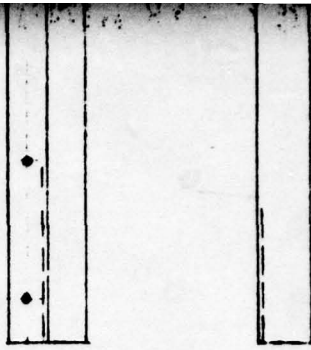




10 = 11'0  
0 = 11'0

5 1/2 M20  
5 1/2 M31

M22 3-5 x 3 1/4 x 17.9  
M23 2-5 x 3 1/4 x 17.9  
M22 3 @ 1'0 = 3  
M23 6 @ 1'0 = 6



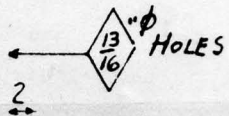
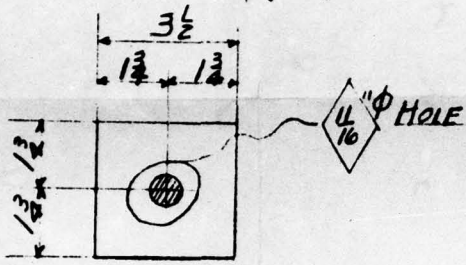
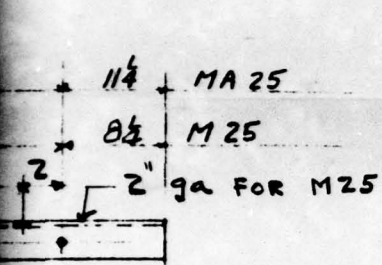
11/6 COVER ANC M22<sup>R</sup>  
12 COVER ANC M23<sup>R</sup>

11'11

1/2 M20

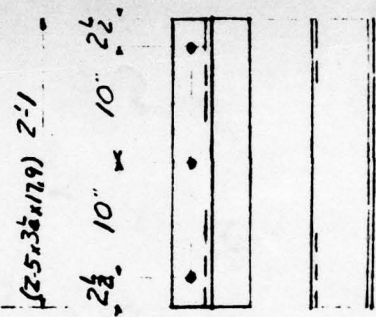
11'11

1/2 M31



11 1/4 MA25  
8 1/2 M25  
2" ga FOR M25

8- PLATES M54  
MA25-BLDS-1-3-A-7 GRIND EDGES SMOOTH  
M25 SHELTERS



11 4 @ 2'0 = 8'0  
8 5 @ 1'10 1/2 = 9'4 1/2

Ga. O. S. L. = 2"

6 - COVER ANC. M24

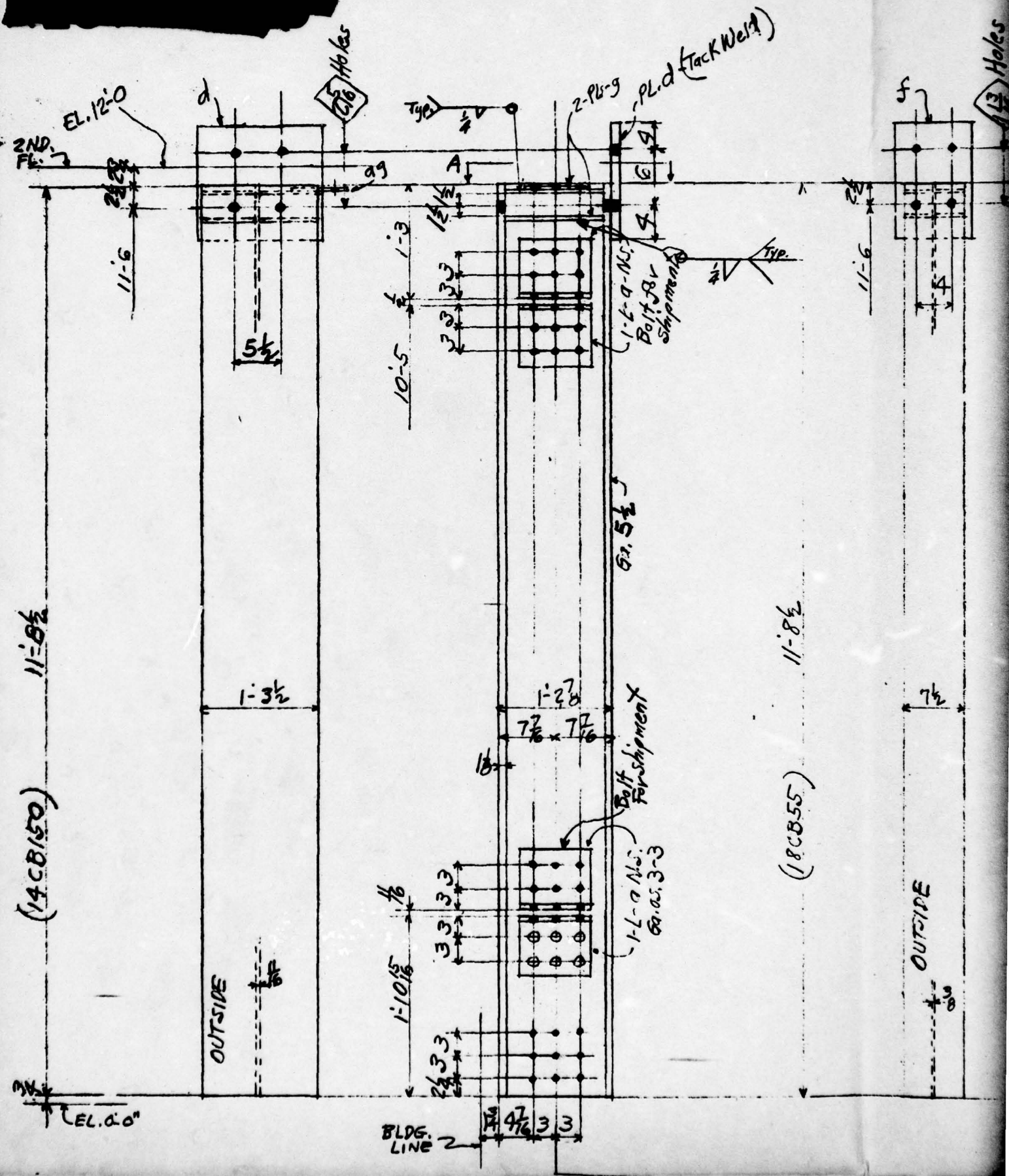
(L-3 1/2 x 3 1/2 x 5/16) 9'10 M44  
(L-3 1/2 x 3 1/2 x 5/16) 10'8 1/2 M45

UNCLASSIFIED

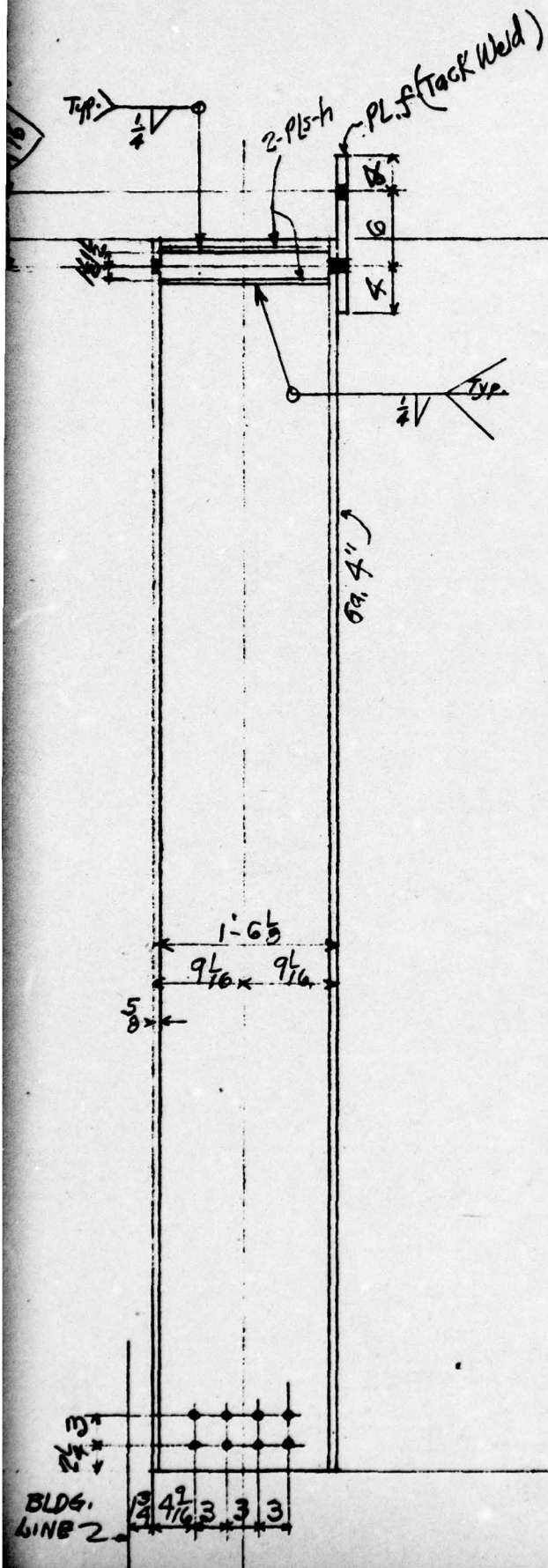
LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	WAGON	PILE
2'-1	M24	A7	S	ML 7/16	1 2 3
3'-1 1/2	MA25				6
11'-11	M26	AT Merck Bar Quality			64
18'-2	M27	A7			3
20'-1	M28				2' 2'
2'-7 1/2	M25				4 4
17'-0	M40				3
10'-2 1/2	M43				1
9'-10	M44				1
10'-8 1/2	M45				1
11'-11	M30				1
11'-11	M31				6
11'-11	M50				9
12'-0 1/2	M51				1
36'-1	M51				1
3'-0					1
10'-0					1

NO.	DATE	BY	REVISION	
HOLES AS NOTED			PAINT 1- SHOP COAT	
RIVETS NONE			TTP-96 RED LEAD BASE	
REF.			LINSEED OIL READY MIXED	
DATE	DRAWN BY	CHECKED BY	IN CHARGE OF	
MAY 11-1950	SLANGEN	GALLAGHER	HOLBROOK	
<b>CONSOLIDATED WESTERN STEEL CORPORATION</b> LOS ANGELES, CALIFORNIA SUBSIDIARY OF UNITED STATES STEEL CORPORATION				
HOLMES & NARVER BLDG'S 1-2-3-4-5-6-7 & ACCESS WAYS			ORDER NO. 7 48357	
POSTS, SEALING ANGLES & CHANNELS COVER ANCHORS & ANGLES.			DRAWING NO. 12	

UNCLASSIFIED

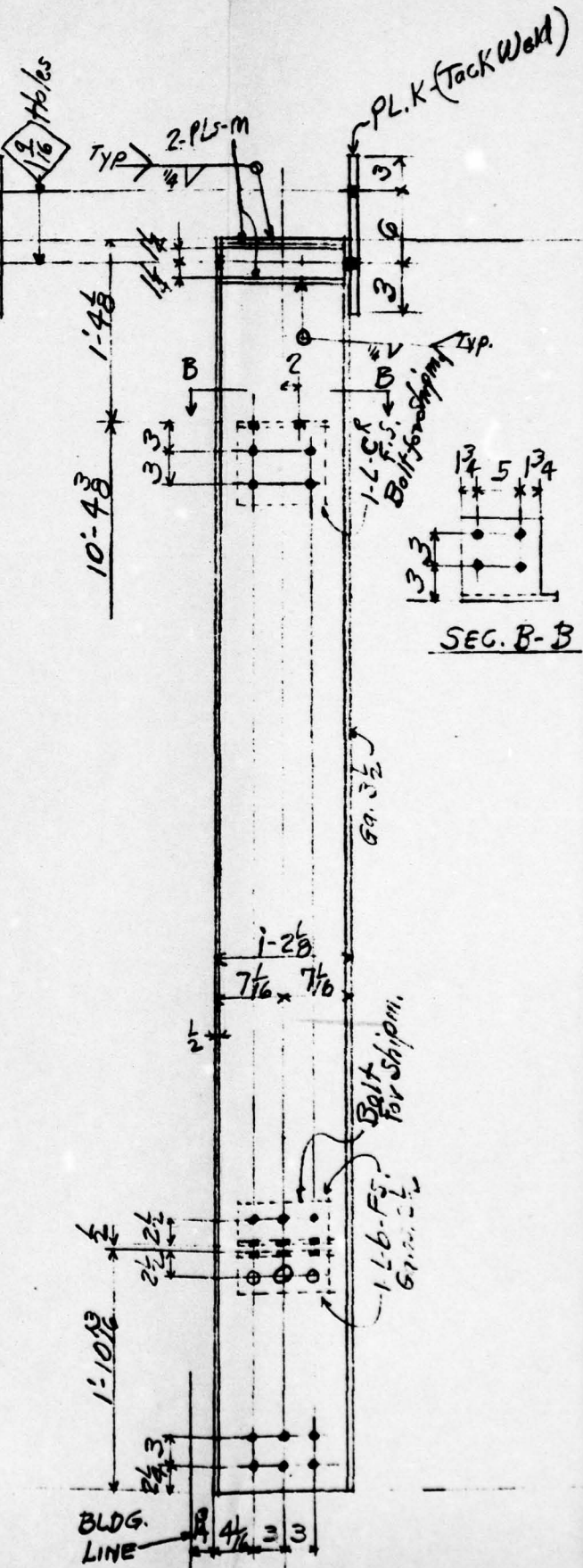




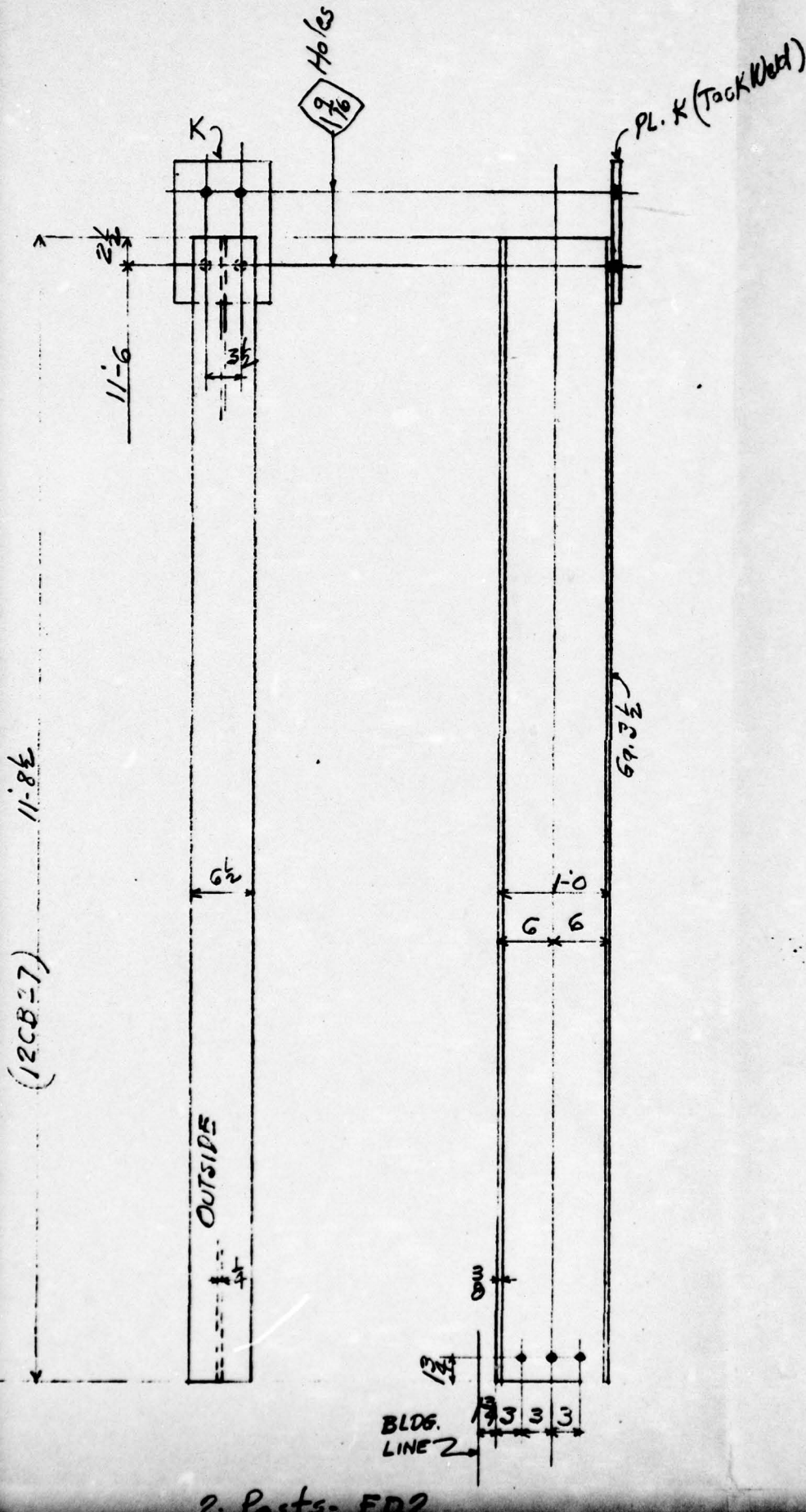


(14 C.B. 38)

OUTSIDE

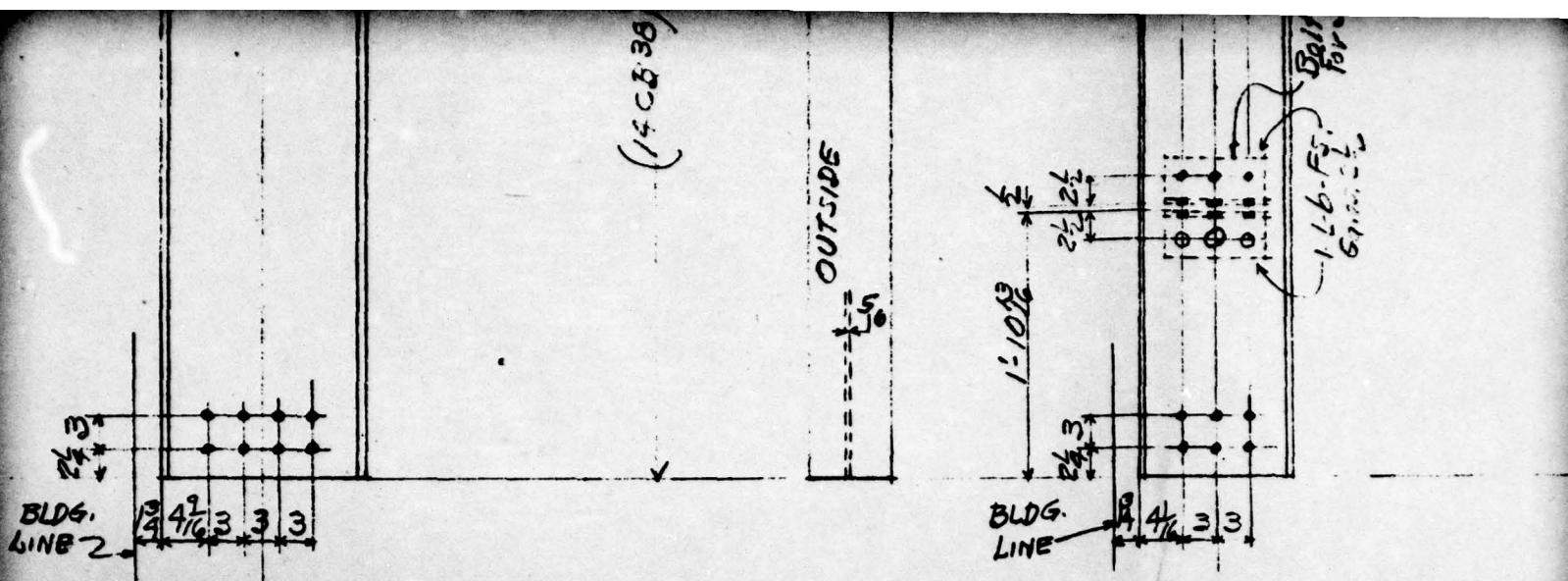


SEC. B-B



[illegible]



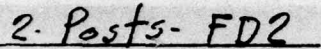


S- FA2  
RELIEVE

One- Post- FDIR - shown } STRESS  
One- " FDIR - Opp. } RELIEVE

FIG. A2.68

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	PIECE	LINE	CHIP. PCS.	DETAIL PCS.	DESCRIPTION
					1 2				

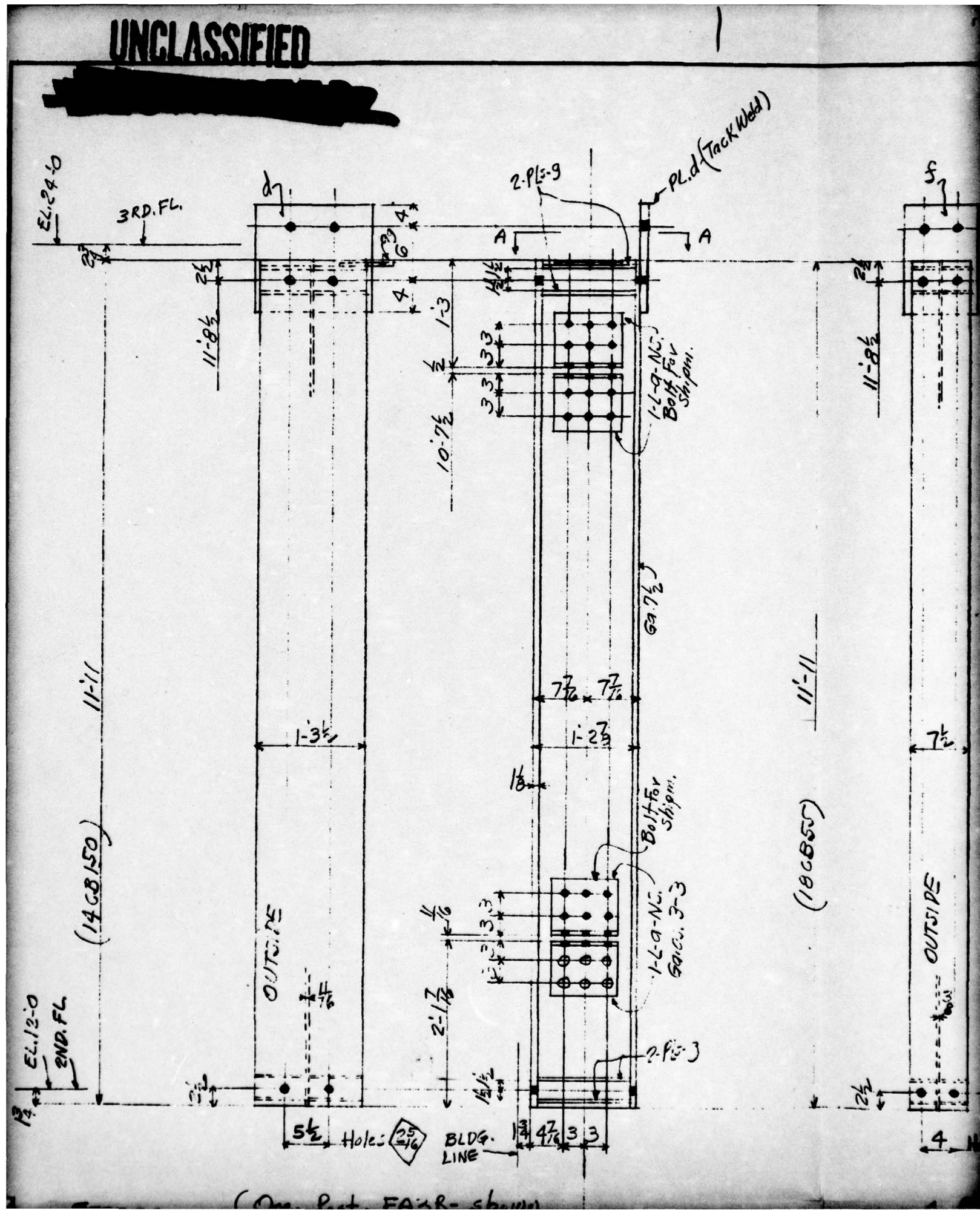


**UNCLASSIFIED**

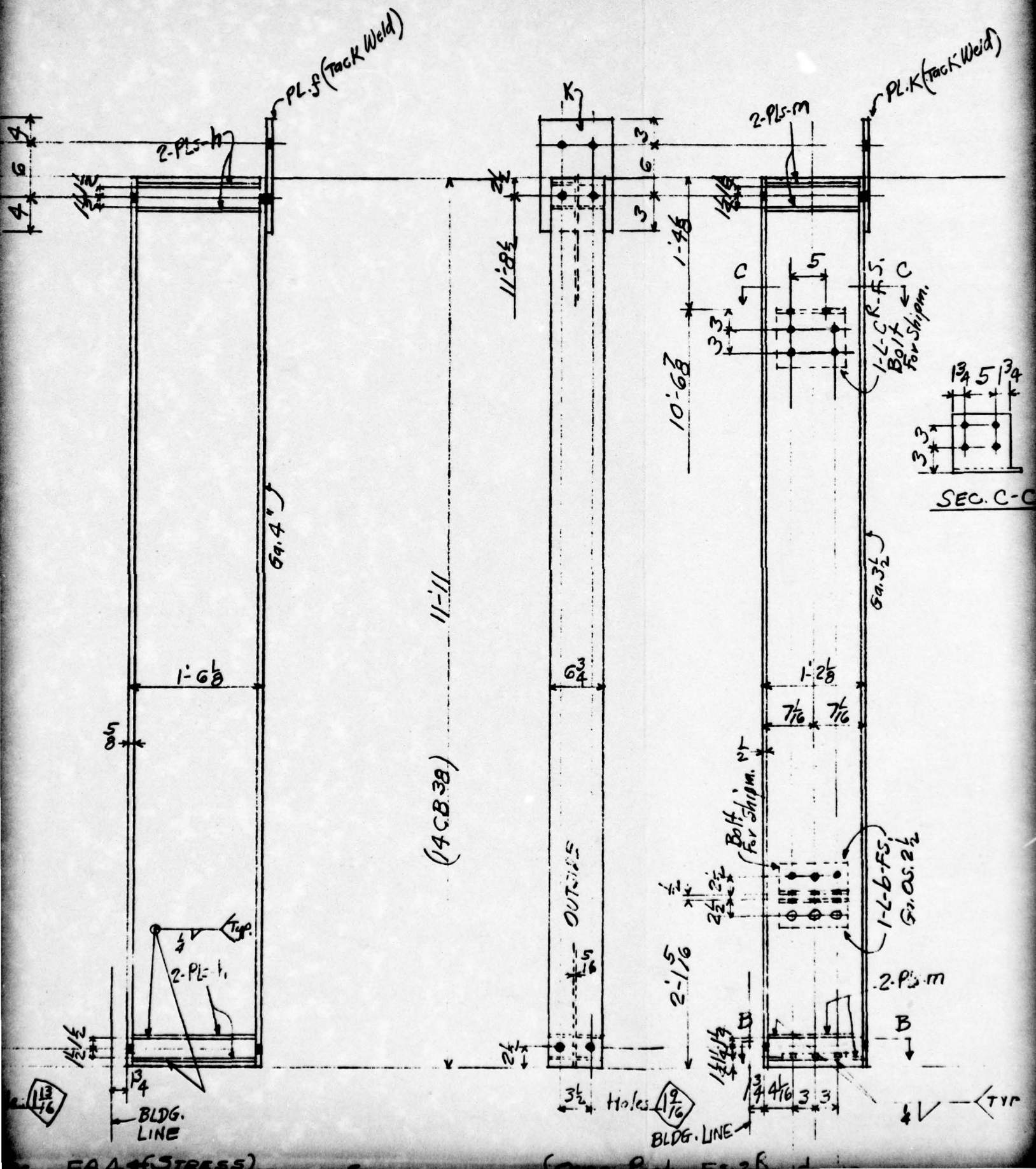
[illegible]

1			
NO.	DATE	BY	REVISION
HOLES	1 1/16" Unless Noted		PAINT 1 - Shop Coat
RIVETS	1" 0		TTP86 Red Lead Base
REF.			Linseed Oil - Red Lead
DATE	DRAWN BY	CHECKED BY	IN CHARGE OF
5-3-50	Lambert	GALLAGHER	Holbrook
<p align="center"><b>CONSOLIDATED WESTERN STEEL CORPORATION</b> LOS ANGELES, CALIFORNIA SUBSIDIARY OF UNITED STATES STEEL CORPORATION</p>			

[REDACTED]

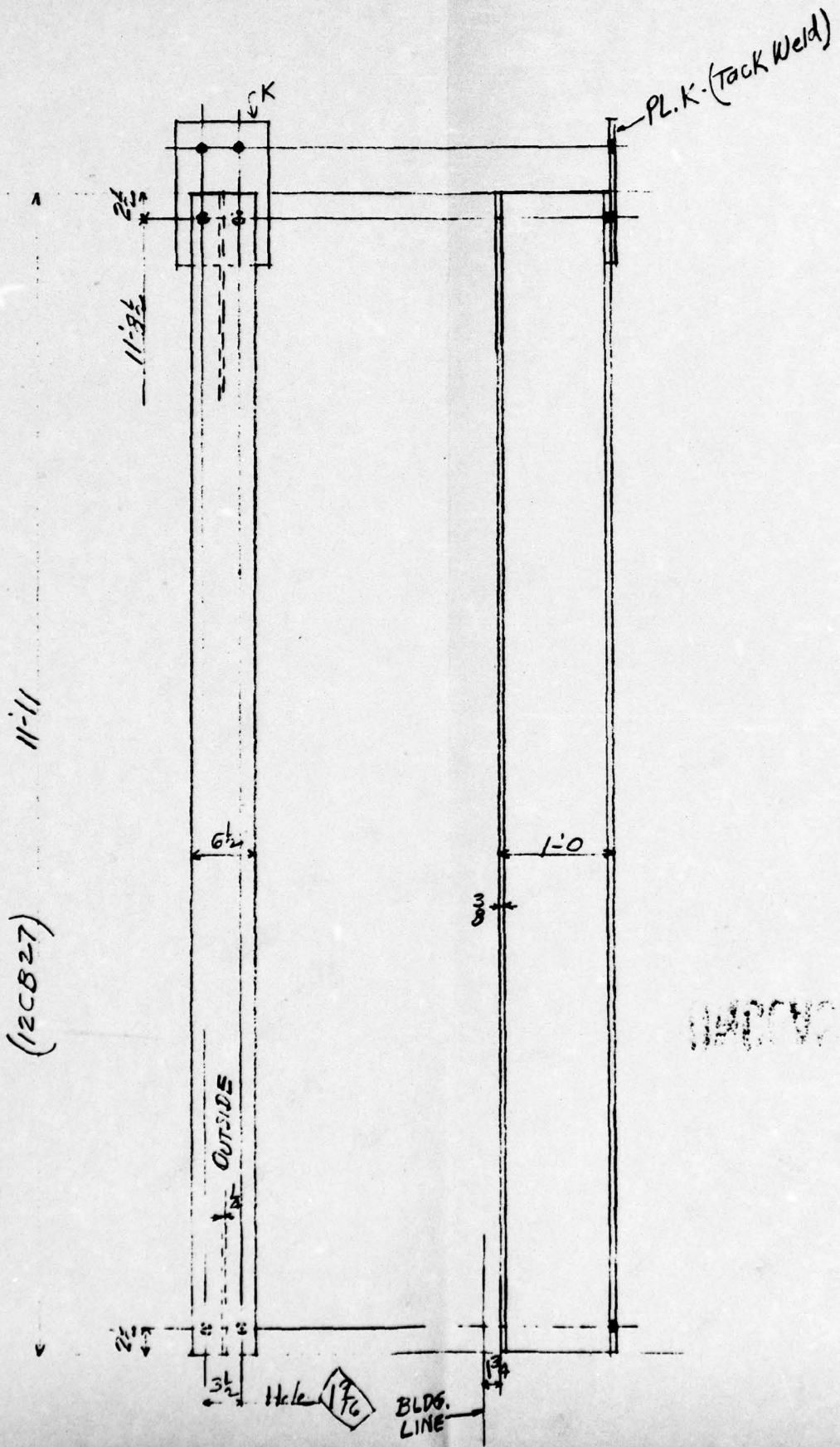






3

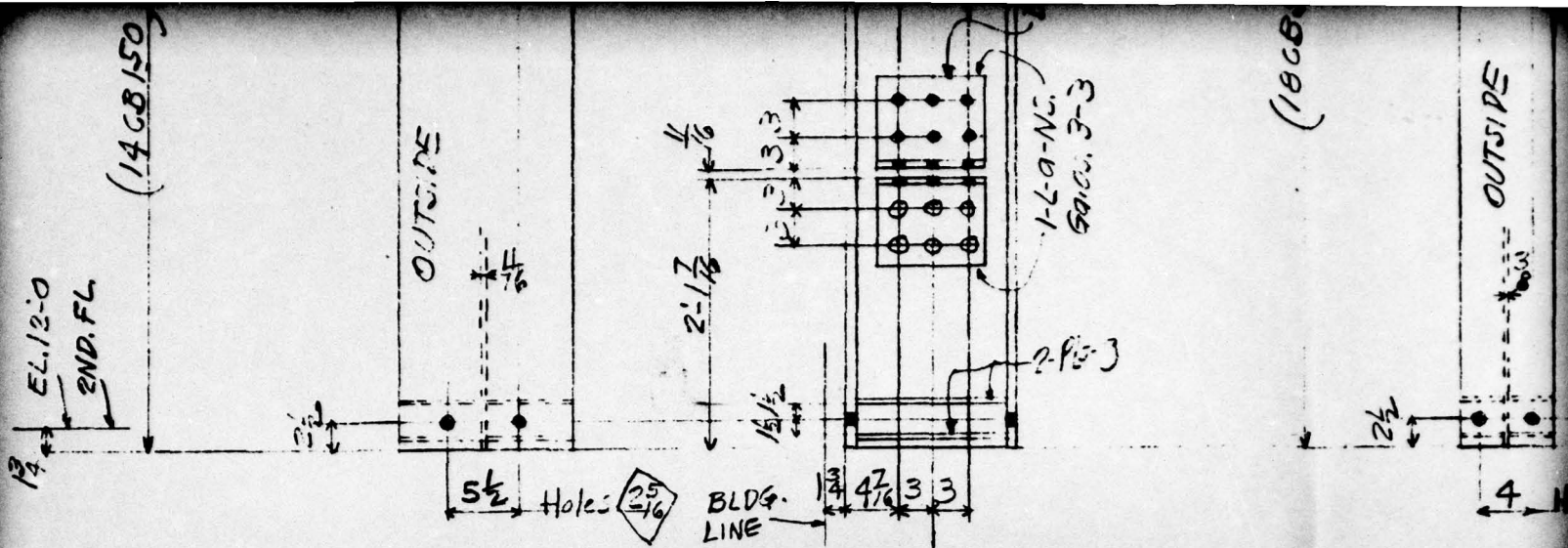
PAGE 100



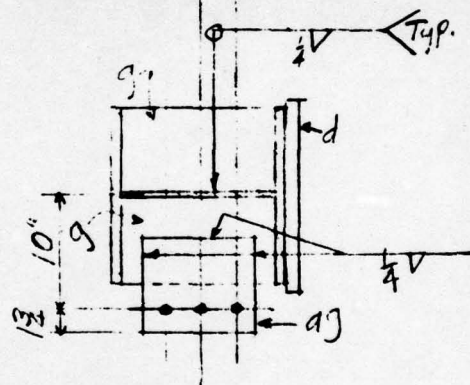
(12CB27)

11-11





STRESS RELIEVE { One Post. FA3R - shown  
One - " FA3L - Opp.



Plan View - A-A

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT	PILE				LINE	SHIP. PCS.	DETAIL PCS.	
									1	2						
1	1		14CB150	11'-11"	FA3R	A7	SBS	ML3-30	1				18	2		12CB
2	1		14CB150	11'-11"	FA3L		SBS	ML3-30	1				19			
3		8	L3x3x1/2	0'-7"	g		S						20			
4		2	PL. 14x1 1/2	1'-4"	d								21			
5		16	PL. 7x1 1/2	1'-0 1/2"	g								22			
6		2	PL. 8x3/8	0'-9 1/2"	ag								23			
7													24			
8	4		13CB55	11'-11"	FA4		SBS	ML3-17-20	4				25			
9		4	PL. 10x1	1'-1"	f		S						26		75 Lbs	
10		32	Bar 3 1/2 x 1/2	1'-4 3/4"	h	A7 Merch Bar Quality	S						27		16 SHOP	
11	1		14CB38	11'-11"	FD3R	A7	SBS	ML4-11	1				28			
12	1		14CB38	11'-11"	FD3L		SBS	ML4-11	1				29		Posts	
13		4	PL. 10x1	1'-0"	K		S						30		FD3R &	
14		4	L4x4x3/8	0'-11 1/2"	b								31		A7	
15		2	L8x8x1/2	0'-9 1/2"	CKL								32			
16		16	Bar. 3 1/2 x 1/2	1'-1"	m	A7 Merch Bar Quality							33			
17		2	PL. 7x3/8	0'-1 1/2"	gim	A7							34			

4





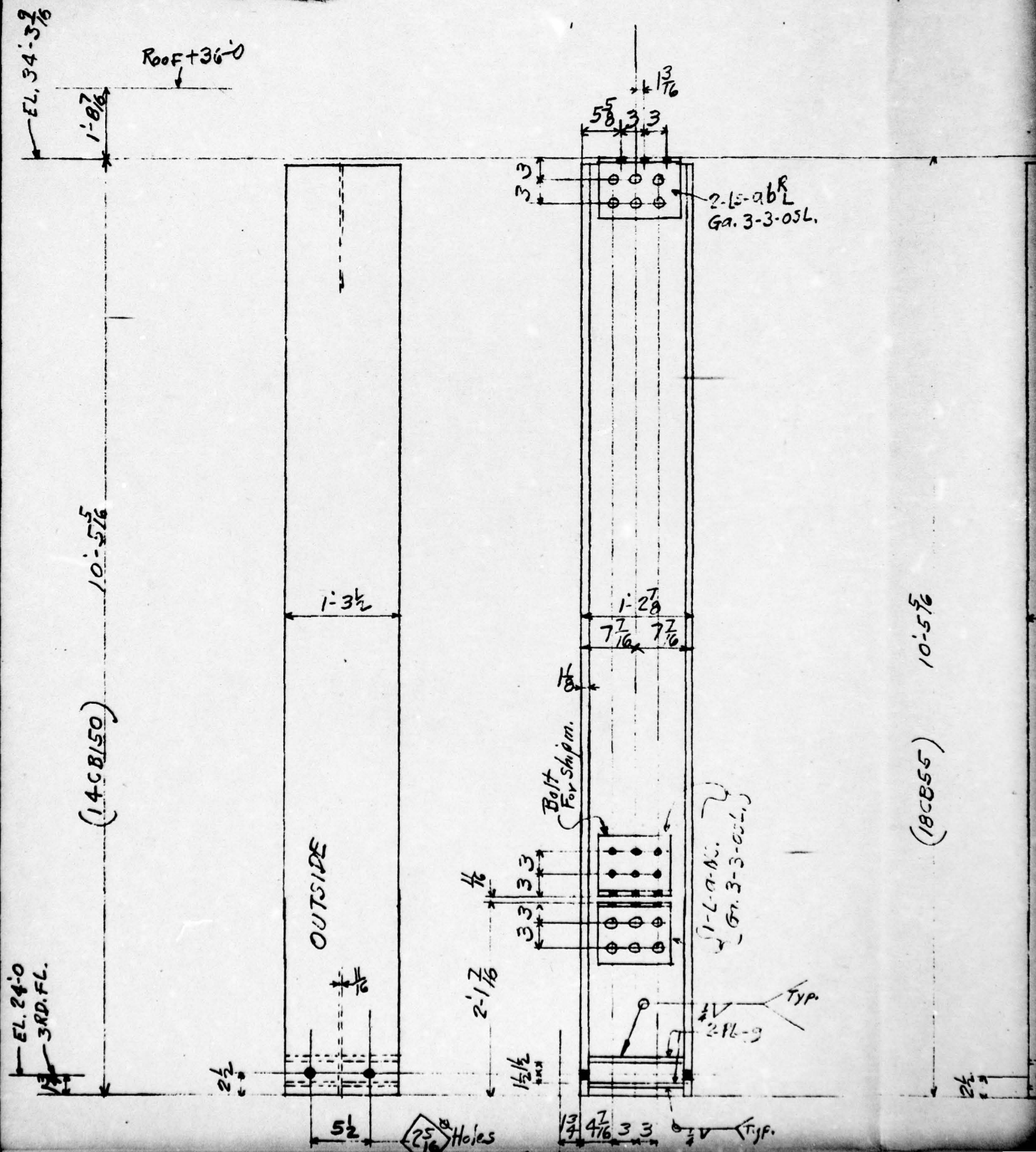
2-Posts- FD4

**UNCLASSIFIED**

[illegible]

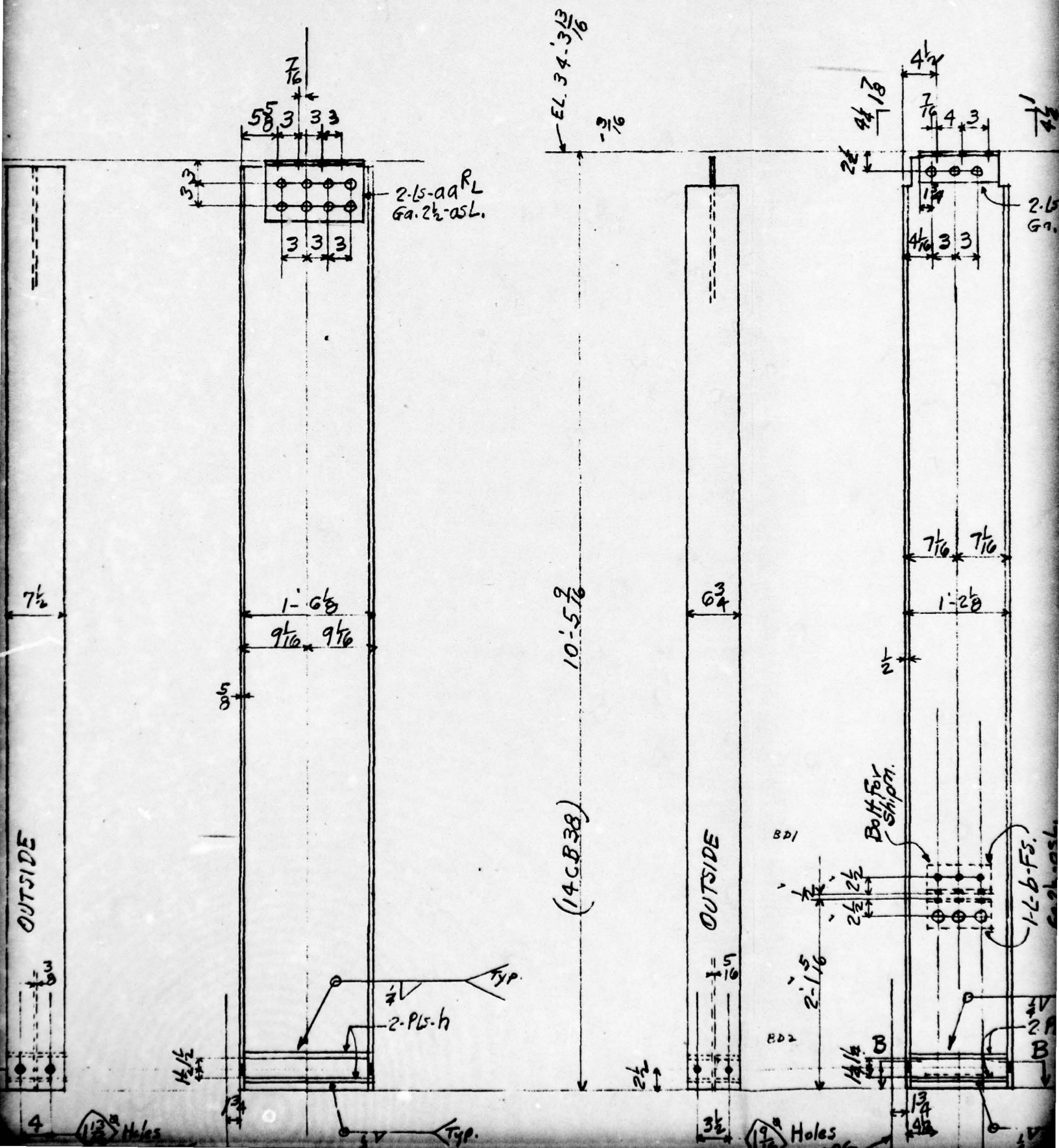
1			
NO.	DATE	BY	REVISION
HOLES	1 1/2" Unless Noted		PAINT 1-Shop Coat
RIVETS	1" &		TTPAG Red Lead Base
REF.			Linseed Oil- Ready Mix
DATE	DRAWN BY	CHECKED BY	IN CHARGE OF
5-4-50	Liam <del>but</del>	GALLAGHER	Holtbrook
<p align="center"><b>CONSOLIDATED WESTERN STEEL CORPORATION LOS ANGELES, CALIFORNIA SUBSIDIARY OF UNITED STATES STEEL CORPORATION</b></p>			
Holmes and Narver Bldg. No. 6			ORDER NO. 48357
Posts (2nd Tier)			DRAWING NO. 14

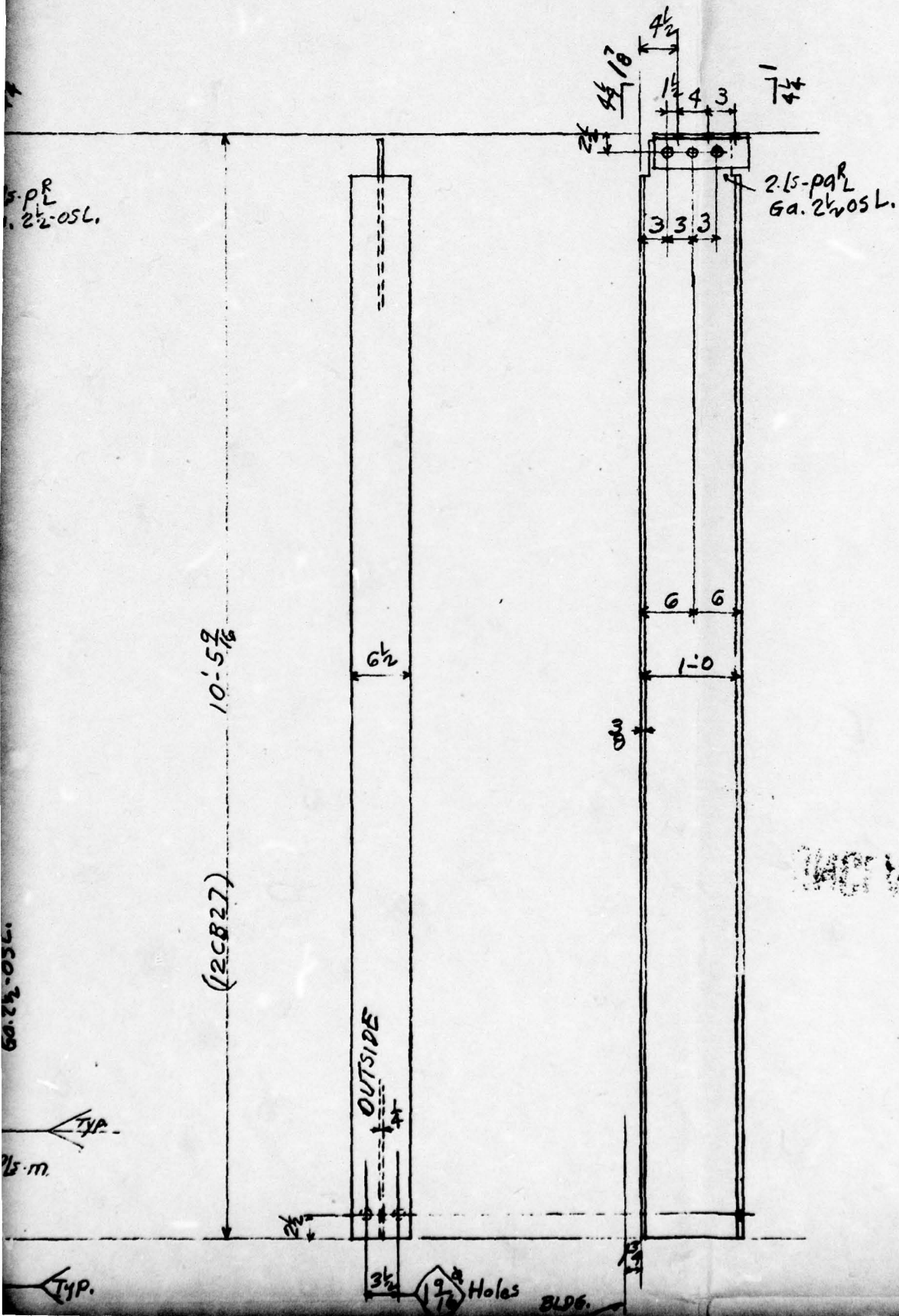
6

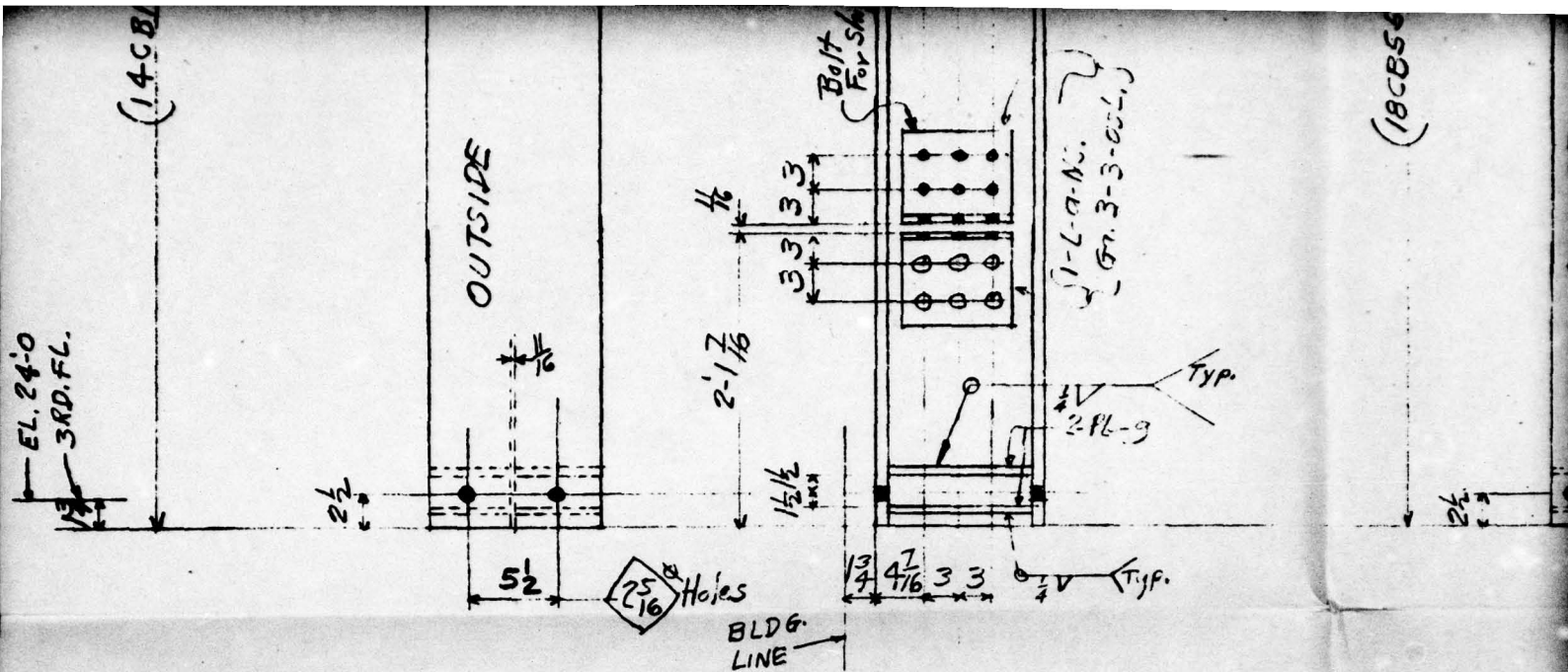




OUTSIDE







2. Posts- FA5  
(STRESS RELIEVE)

4

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTH.	WEIGHT	PILE						LINE	SHIP. PCS.	DETAIL PCS.	
									1	2								
1	2		14CB150	10'-4 <sup>3</sup> / <sub>4</sub>	FA5	A7	SBS	ML3:32		2					18		40	Lbs
2		8	PL 7x1 <sup>1</sup> / <sub>2</sub>	1'-0 <sup>1</sup> / <sub>2</sub>	g		S								19		36	SHOP
3		4	L8x8x1 <sup>1</sup> / <sub>2</sub>	0'-9 <sup>1</sup> / <sub>2</sub>	g										20			
4		8	L8x4x1 <sup>1</sup> / <sub>2</sub>	1'-1	qqRL										21			
5	4		18CB55	10'-4 <sup>3</sup> / <sub>4</sub>	FA6	✓	SBS	ML3:17-20	4						22			Post



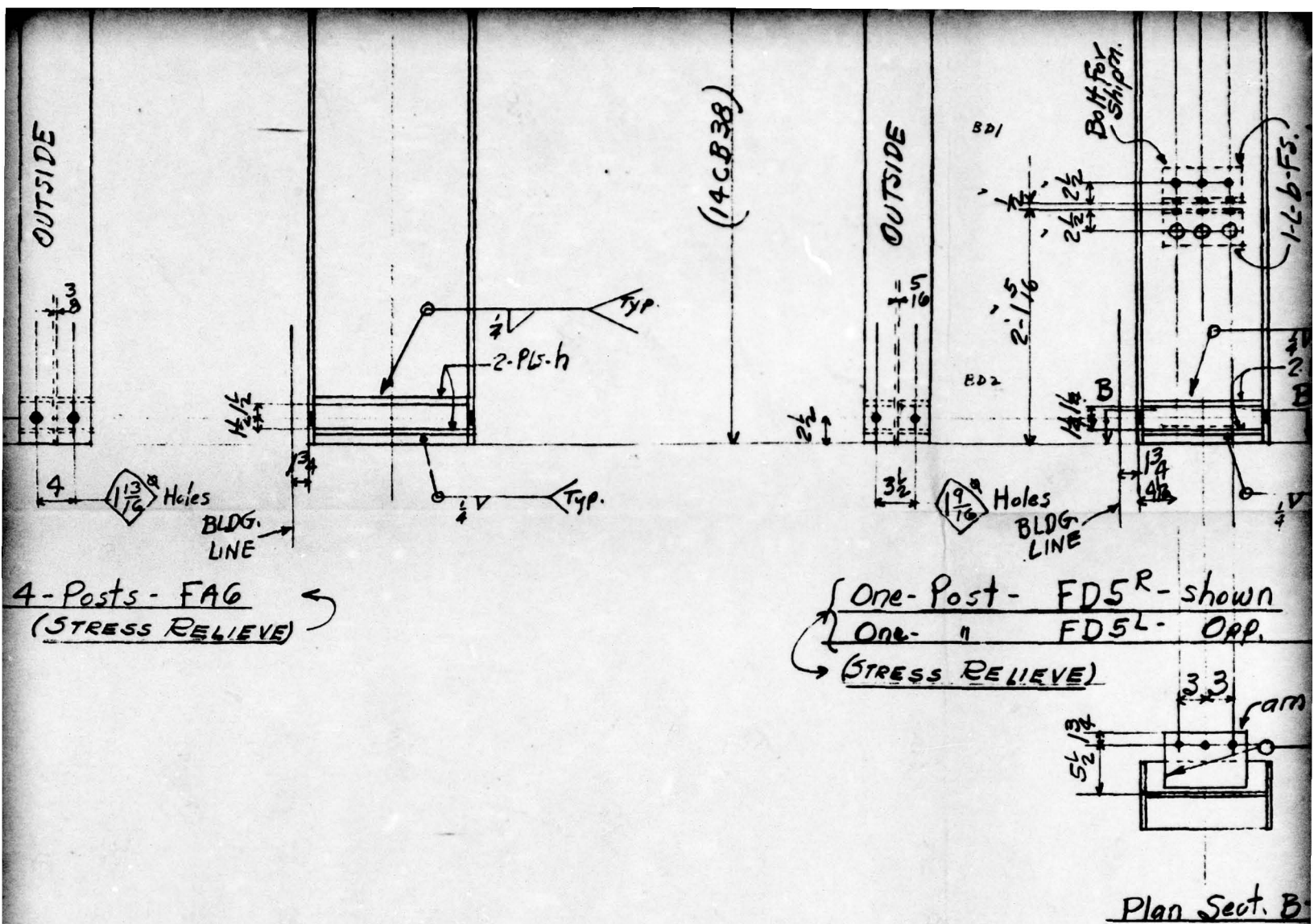


FIG. A2.70

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT	LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LESS PATR.
-------------	-----------------------	------------	-------	--------	--------	------	------------	-------------	-------------	------------

B-B

(12C827)

OUTSIDE

3 1/2"  $\frac{19}{16}$  Holes

BLDG.  
LINE

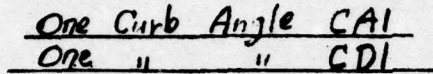
2- Posts- FDG

**UNCLASSIFIED**

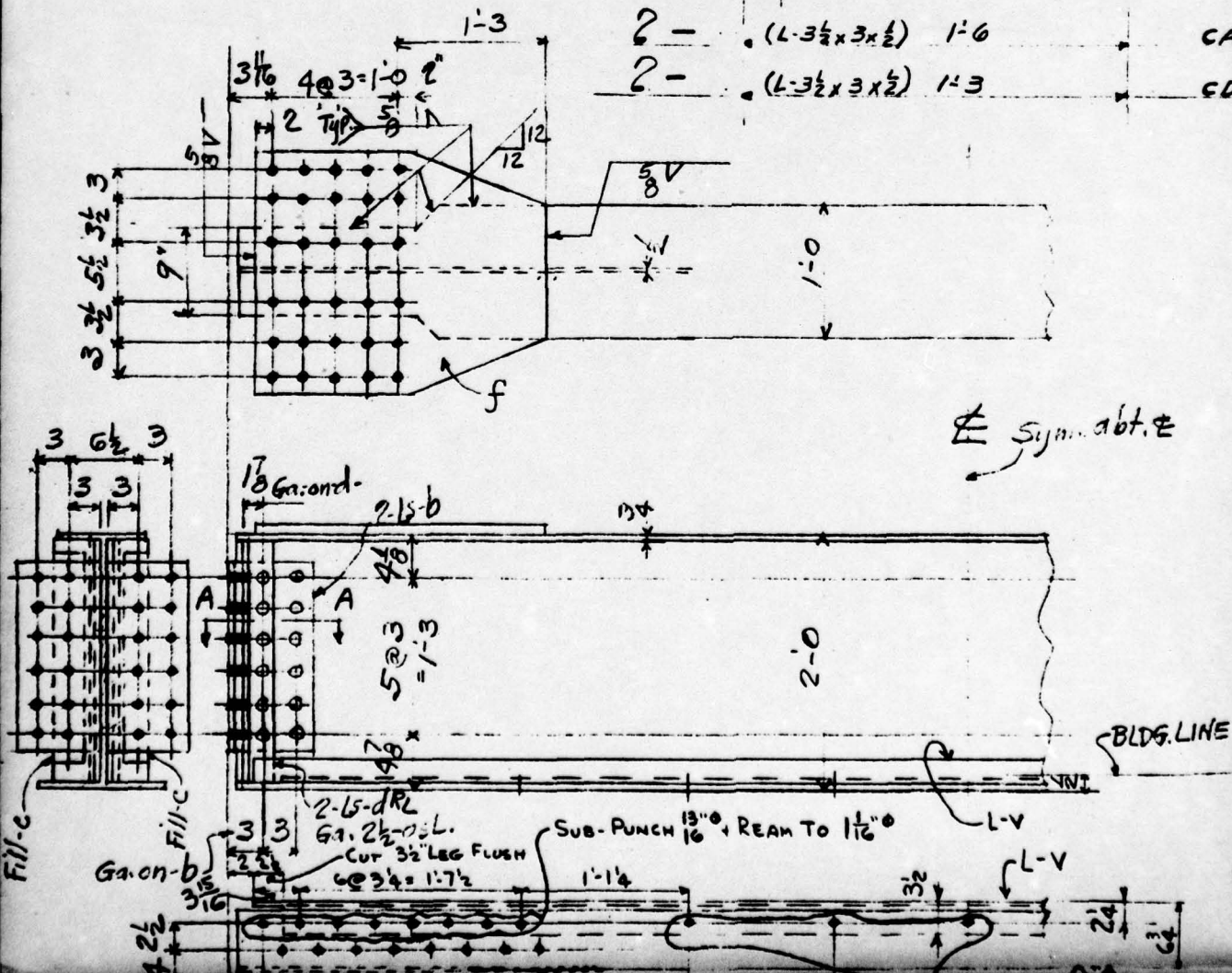
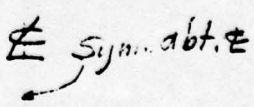
[illegible]

1			
NO.	DATE	BY	REVISION
HOLES	1 1/16" Unless Noted		PAINT One Shop Coat
RIVETS	1/8"		TTPB6 Red Lead Base
REF.			Linsaed Oil - Ready Mix
DATE	DRAWN BY		CHECKED BY
5/9/50	Lambert		GALLAGHER
			IN CHARGE OF
			Holbrook

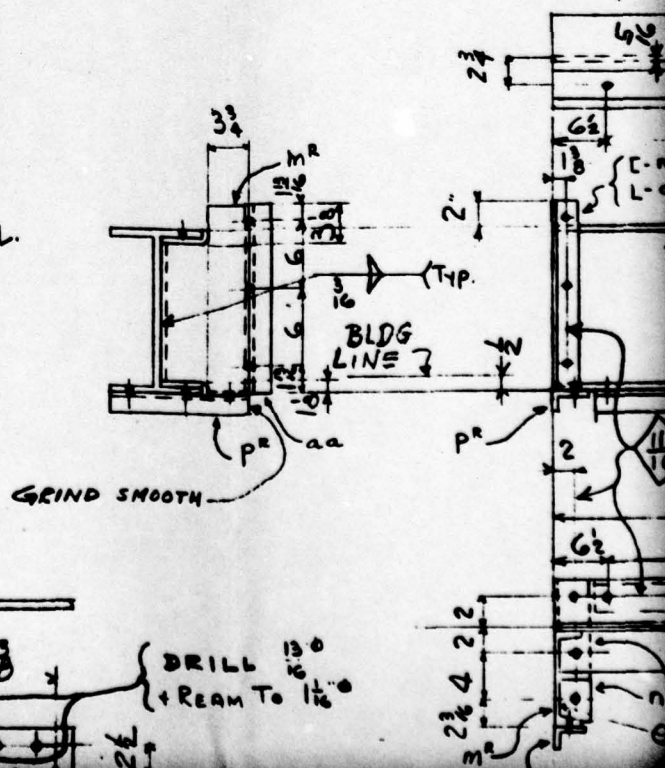
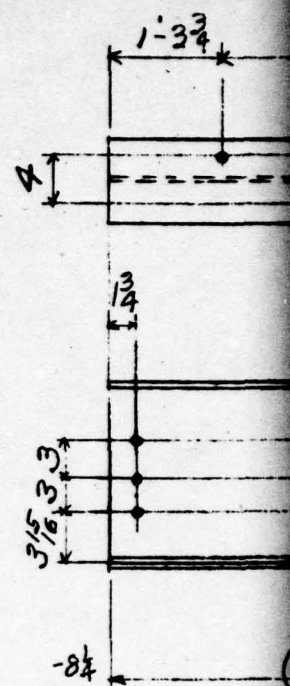
[REDACTED]

$$\frac{3}{4} \frac{L}{75}$$


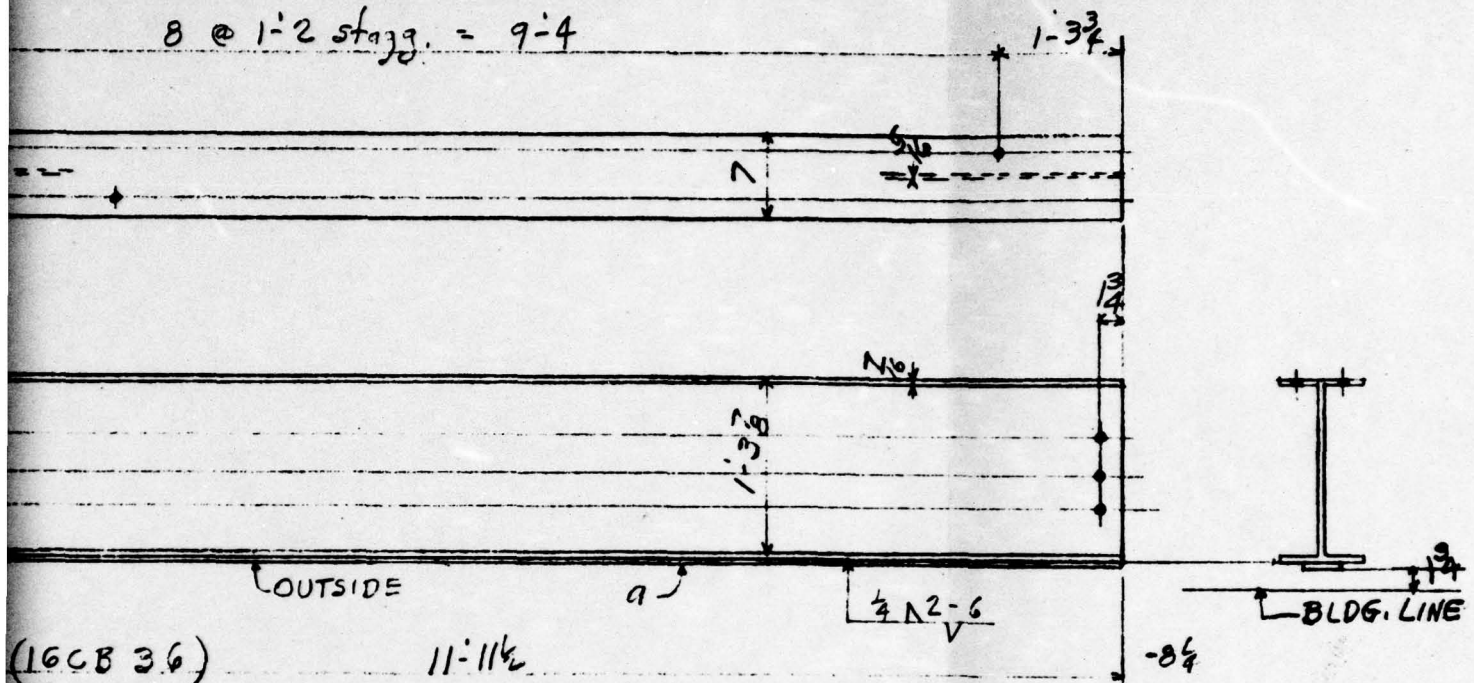
BA1  
BA2







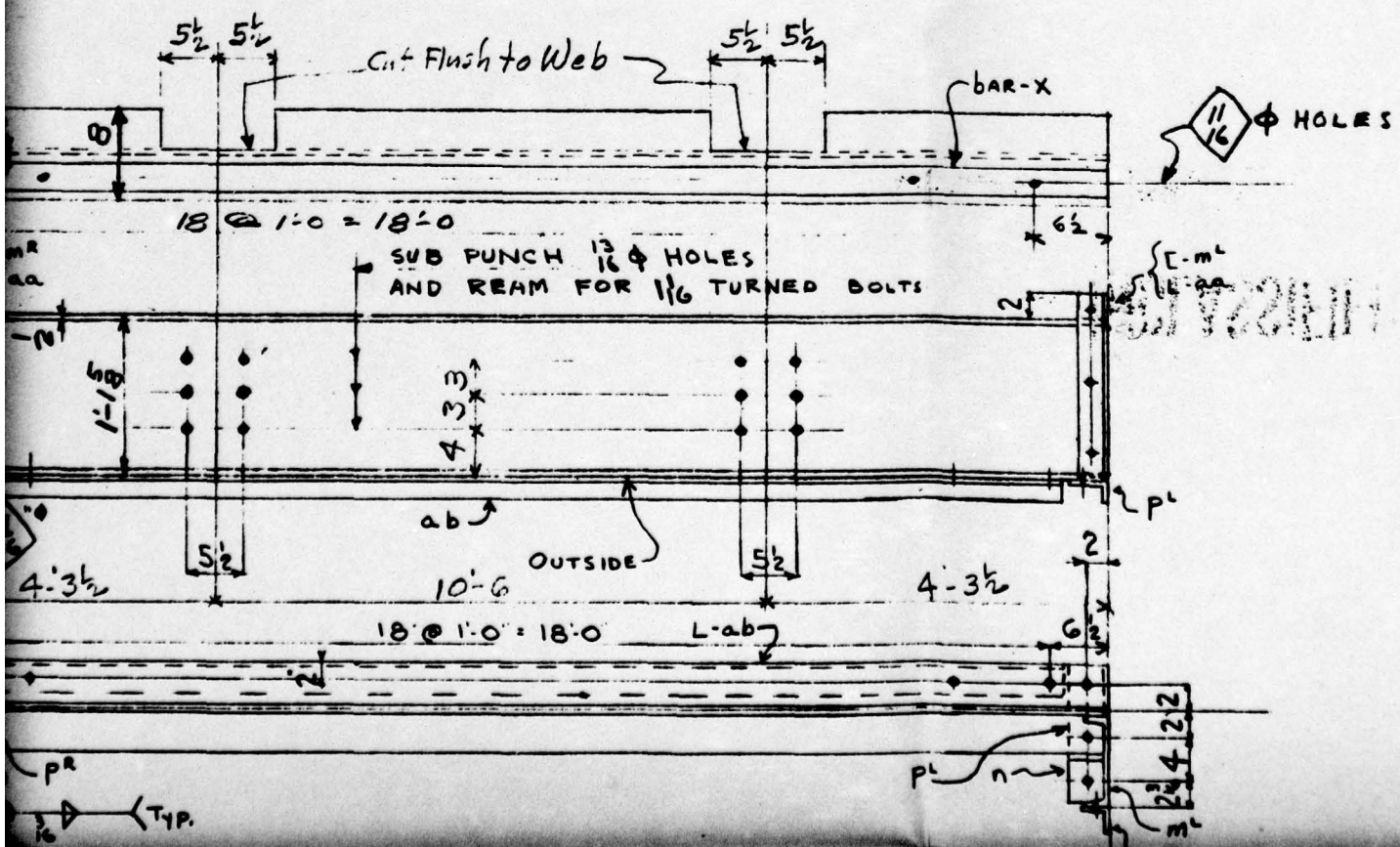
8 @ 1'-2" stagg. = 9'-4"



(16CB 3.6)

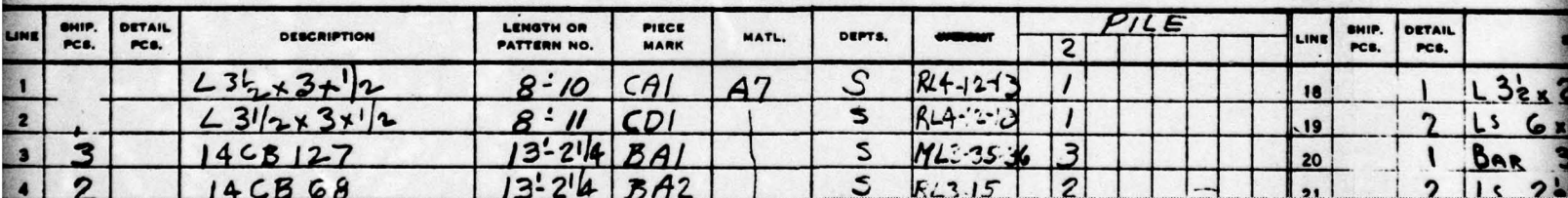
11'-11 1/2"

STRESS RELIEVE) 2- Bar 115 - BA3



PR  
1/16" (TYP.)





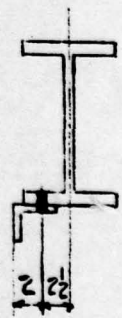
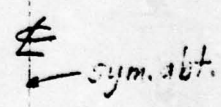








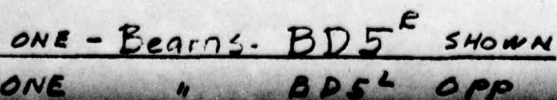
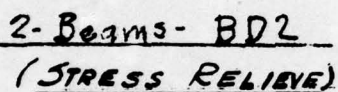
-33



One Beam - BD4

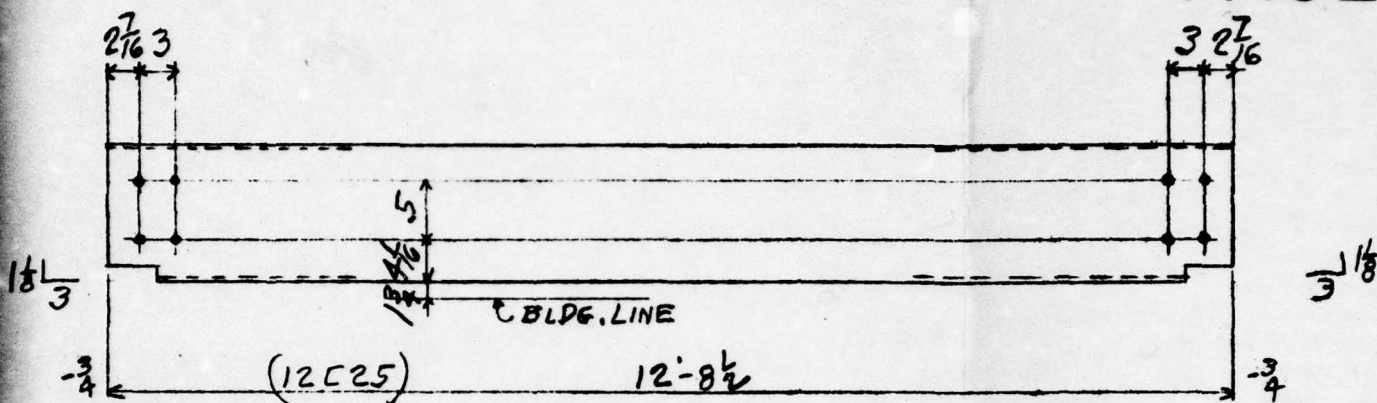


2




**HOLES**

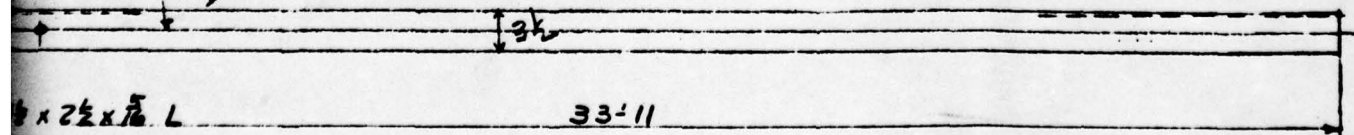
3



2-Beams- BD3

34170221

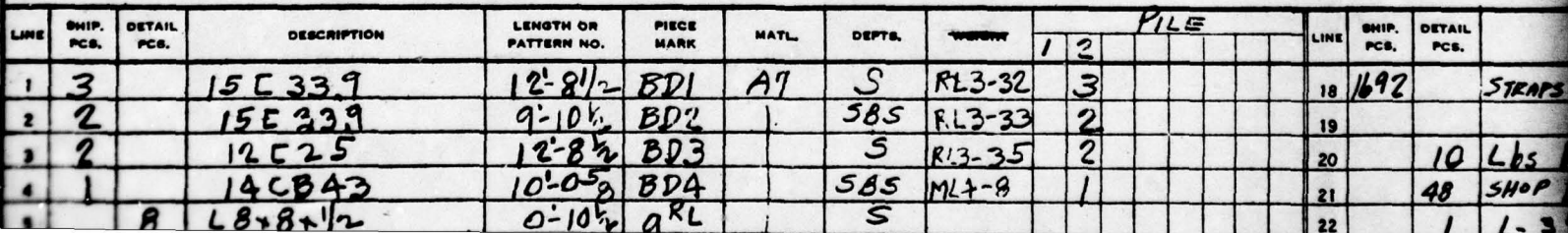
 Holes Drilled in FIELD



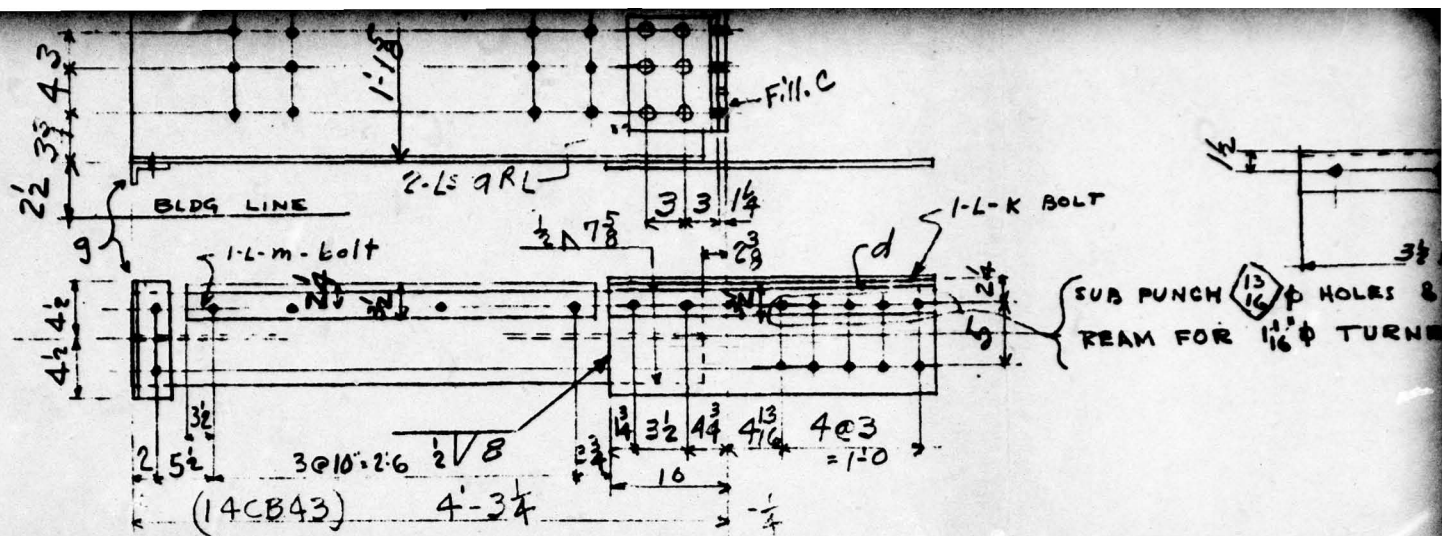
RED BOLTS

8-Corner Angle - CA2

FOR NAILS - PUNCH IN FIELD







ONE - Beams - BD5<sup>R</sup> SHOWN  
 ONE " BD5<sup>L</sup> OPP

(STRESS RELIEVE)

HOLE

C-11"

FIG. A2.72

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	WEIGHT	PILE					LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LWS PATT.
						2									
PS 1 1/2 x 16 Gg. (BENT)	3'-5	MXI	Control QUALITY	L	RL 4	1692					35				
Weld Rod E 7010-11	OR 20			S							36			Beams Marked BD	
RIVETS 1" P			A-141	S							37			BD5 <sup>L</sup> To Be St	
3 1/2 x 2 1/2 x 5/16	2'-4 1/2	K	A7	S							38			After Welding.	
3 1/2 x 2 1/2 x 5/16	3'-1	m	A7	S							39				
											40				
											41				

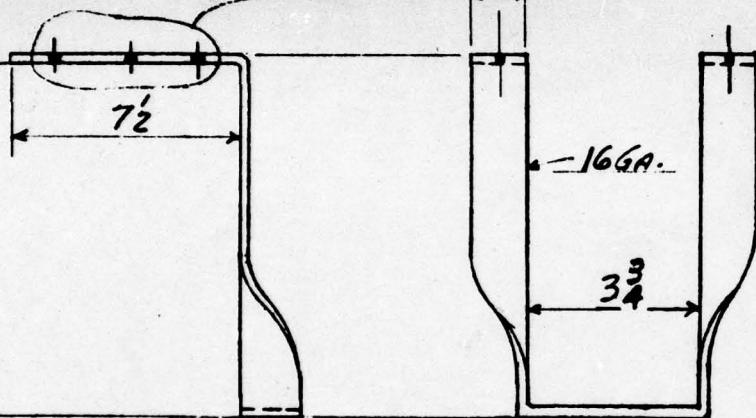
11/16

Holes Drilled in FIELD

8  
INED BOLTS

## 8-Corner Angle - CA2

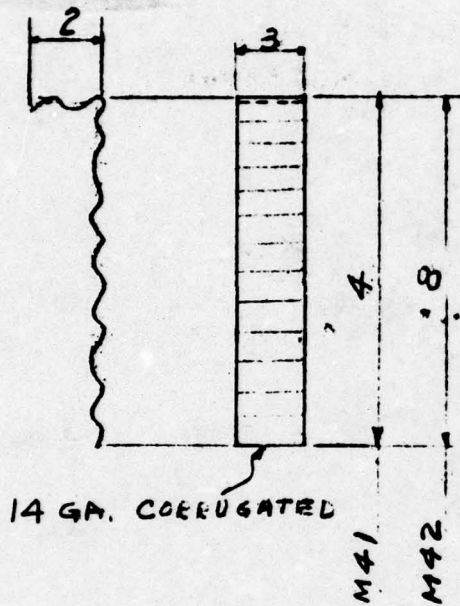
LES FOR NAILS - PUNCH IN FIELD



1692 - U-STRAPS - M X 1

**UNCLASSIFIED**

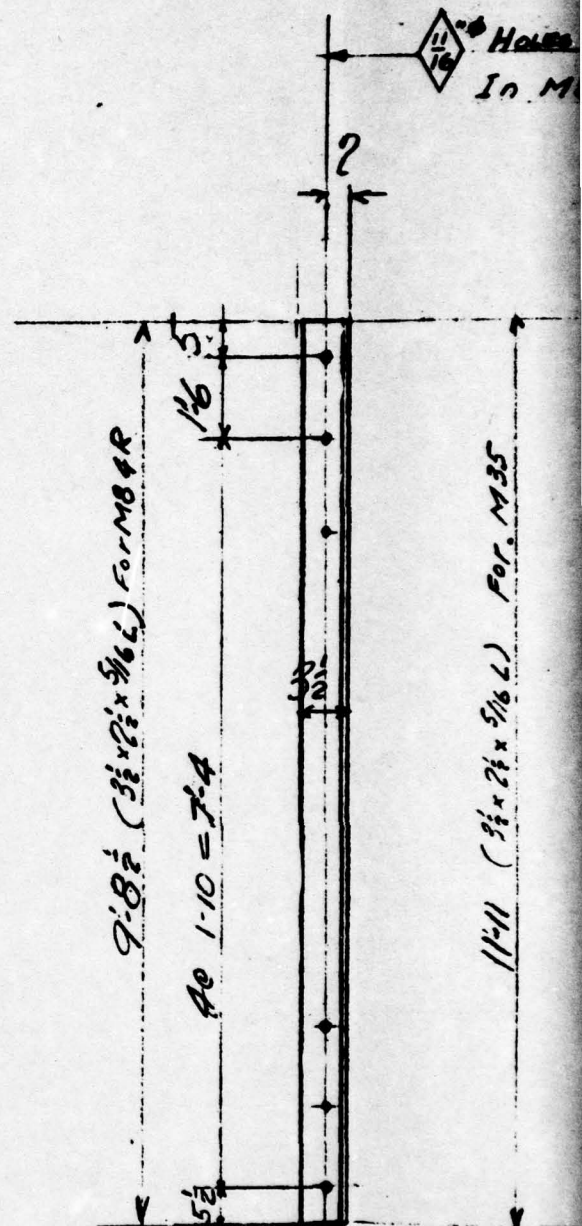
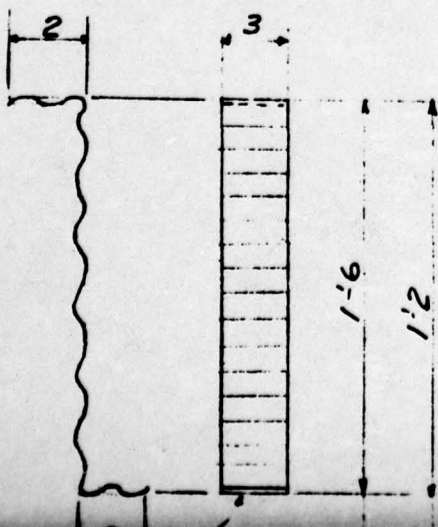
[illegible]



14 GA. CORRUGATED

75-BRICK ANCHORS M41

125-BRICK ANCHORS M42



24 SEALING ANGLE-M35 (P/O)

6 SEALING ANGLE-M84R (SM)

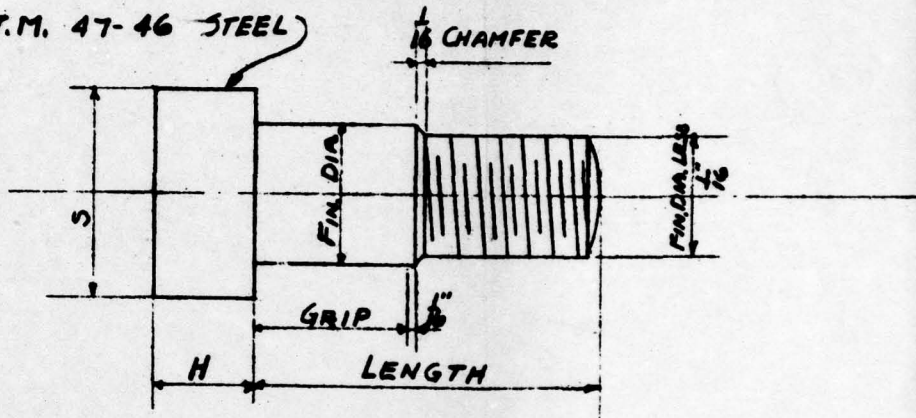
6 SEALING ANGLES-M84L (OP)



18 1/2

A. S. T. M. 47-46 STEEL

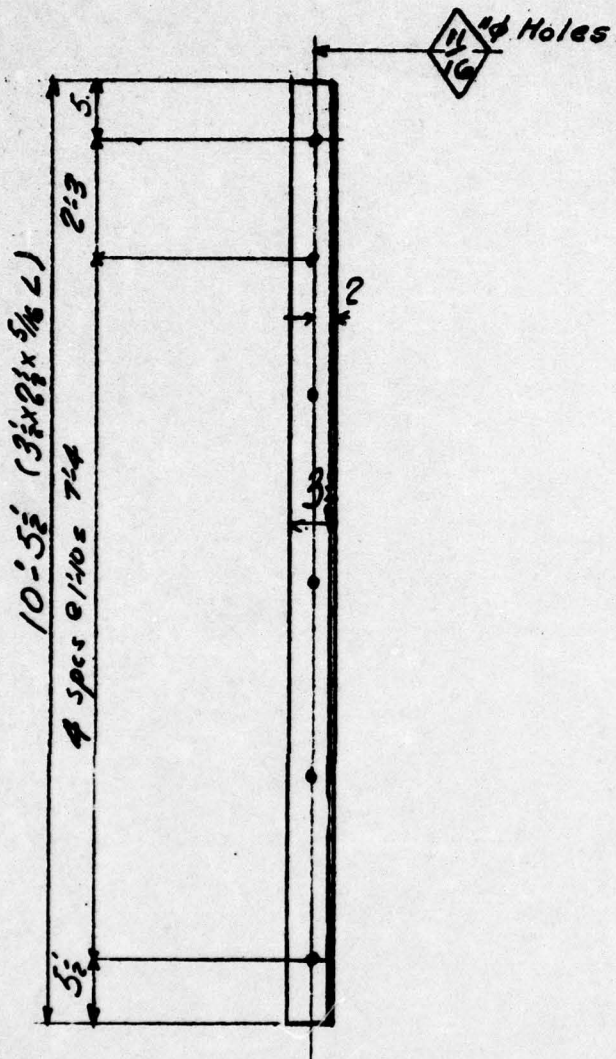
1/16 CHAMFER



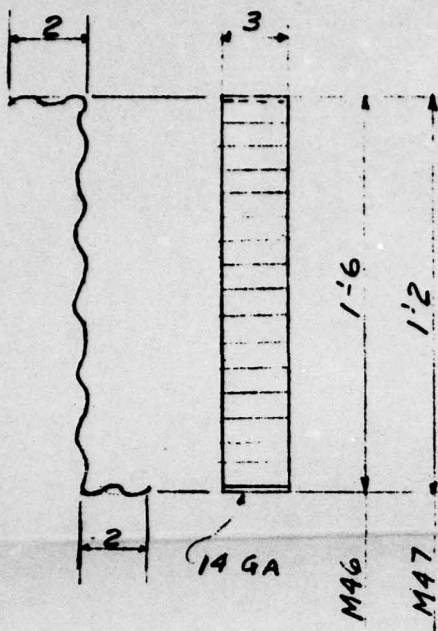
NO PAINT

FIN. DIA.	SIZE OF HEX. STOCK	H	STD. HEX. NUTS
1 1/16	1 1/2	3/4	-
1 1/8	1	1/2	5/8

in)  
nn)  
posite)



3- SEALING ANGLES-MB2R (shown)  
3- SEALING ANGLES-MB2L (opposite)



24 SEALING ANGLE-M35 (PI)  
 6 SEALING ANGLE-MB4R (SM)  
 6 SEALING ANGLES-MB4L (OP)

125 BRICK ANCHORS M46 } NO PAINT  
 40 BRICK ANCHORS M47 }

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	FILE										LINE	SHIP. PCS.	DETAIL PCS.	
								3	2	1											
1	24		L 3 1/2 x 2 1/2 x 5/8 (Plain)	11'-11"	M35	A7	S	24										18	3	LS	
2																		19	3	LS	
3	75		14 GA X 3" CORRUS.	0'-6"	M41	COMM. QUALITY	L	75										20	6	LS	
4	125		14 GA X 3" "	0'-10"	M42			125										21	12	LS	
5	125		14 GA X 3" "	1'-10"	M46			125										22	6	LS	
6	40		14 GA X 3" "	1'-6"	M47			40										23	6	LS	
7	58		TURNED BOLTS 1 1/8 FIN. DIA.	0'-2 1/2"		A7	M	29	29									24			
8			1 1/2" GRIP															25	19		TURNED
9	58		STRUCT. WASHERS 3/8" THICK 1 1/8" HOLE			COMM. QUALITY	S	29	29									26			25
10	74		TURNED BOLTS 1 1/8 FIN. DIA.	0'-2 3/8"		A7	M	74										27	19	1 1/8"	
11			1 1/2" GRIP															28	19		STRUCT.
12	74		3/8" HEX NUTS			COMM. QUALITY	M											29	24		TURNED
13	74		STRUCT. WASHERS 3/8" THICK 3/4" HOLE				S	74										30			1 1/2"
14	18		TURNED BOLTS 1 1/8 FIN. DIA.	0'-2"		A7	M	18										31	24		1 1/8"
15			1 1/2" GRIP															32	24		STRUCT.
16	18		3/8" HEX NUTS			COMM. QUALITY	M											33	19		TURNED
17	18		STRUCT. WASHERS 3/8" THICK 3/4" HOLE				S	18										34			6

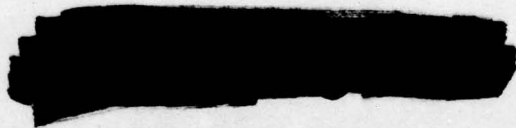


(ain)  
 (down)  
 (opposite)

FIG. A2.73

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATEL.	QDPTS.	WEIGHT	PILE						LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LBS PAT.
						3	1	2								
3/8 x 2 1/2 x 5/16	10-5 1/2	M82R	A7	S		3						35		19	1" Hex Nuts	
3/8 x 2 1/2 x 5/16	10-5 1/2	M82L	A7	S		3						36	19		Struct. Washers 3/8" Thk.	
3/8 x 2 1/2 x 5/16 (Plain)	10-5 1/2	M83	A7	S		6						37				
3/8 x 2 1/2 x 5/16 (Plain)	9-8 1/2	M85	A7	S		12						38				
3/8 x 2 1/2 x 5/16	9-8 1/2	M84R	A7	S		6						39				
3/8 x 2 1/2 x 5/16	9-8 1/2	M84L	A7	S		6						40				
												41				
Red Bolts 1/2" Fin. Dia.	0-3 3/8		A7	M	5.00 No. 2			19				42				
5/16" Grip												43				
Hex Nuts			Comm. Quality	M								44				
Struct. Washers 3/8" Thk. 1 1/2" Hole			↓	S				19				45				
Hex Bolts 1/2" Fin. Dia.	0-3 3/8		A7	M	5.00 No. 2			12	12			46				
5/16" Grip												47				
1" Hex Nuts			Comm. Quality	M								48				
Struct. Washers 3/8" Thk. 1 1/2" Hole			↓	S				12	12			49				
Red Bolts 1/2" Fin. Dia.	0-4 1/2		A7	M	8.00 No. 2			19				50				
Grip - 2 1/2"												51				

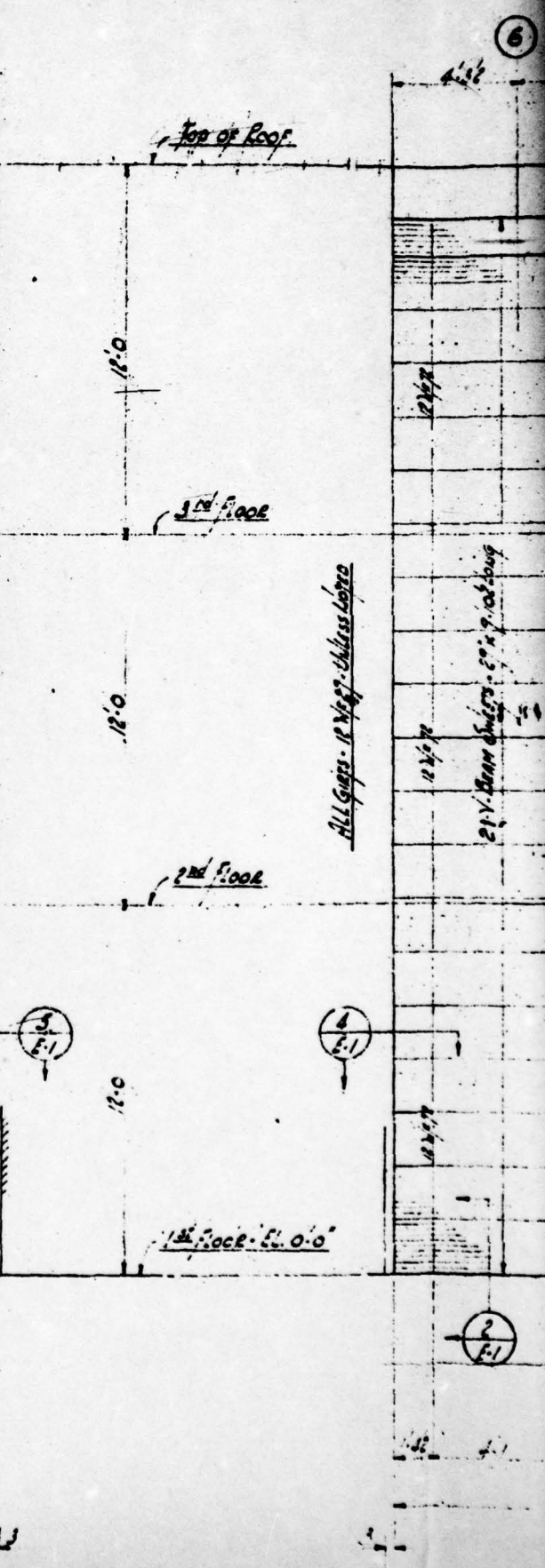
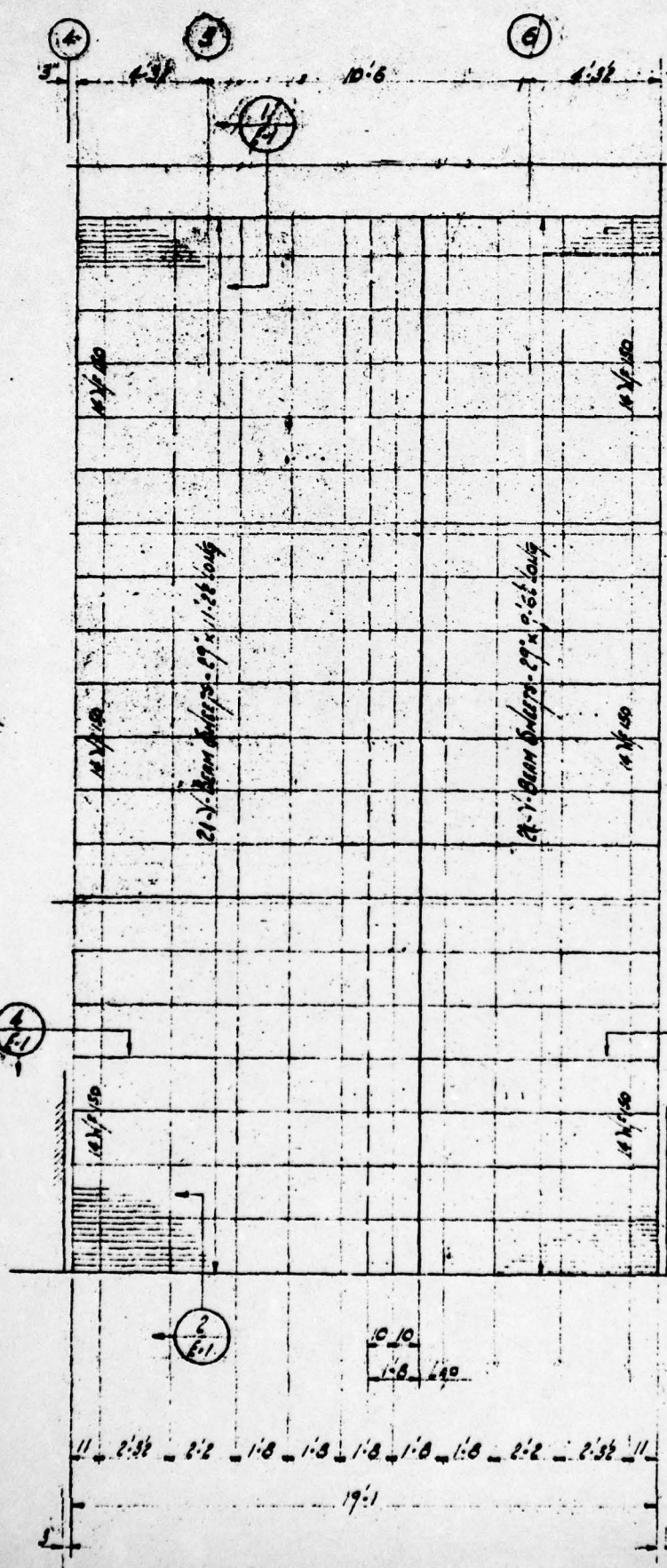
3-SEALING ANGLES-M82<sup>R</sup> (shown)  
3-SEALING ANGLES-M82<sup>L</sup> (opposite)



**UNCLASSIFIED**

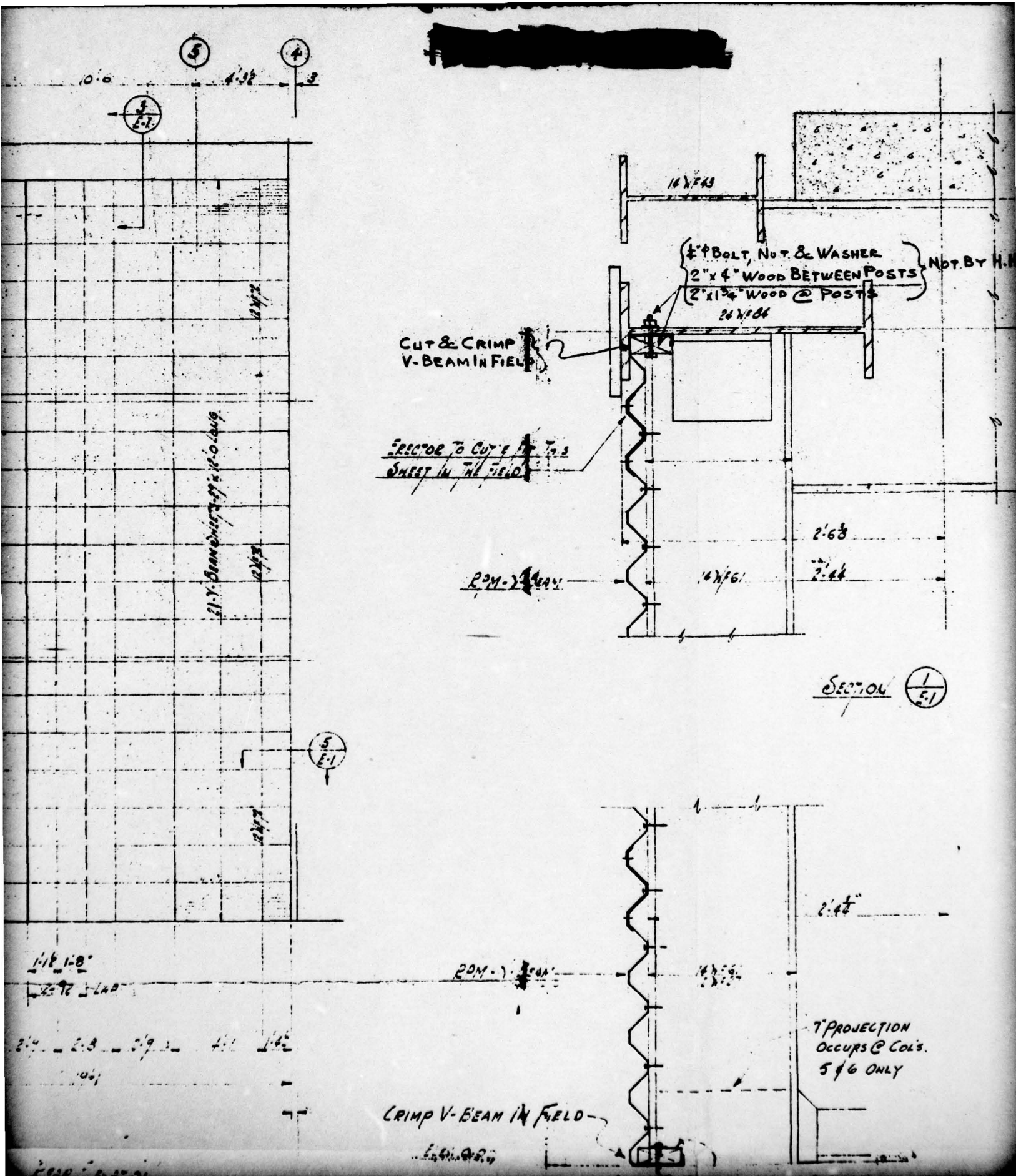
LENGTH OR PATTERN NO.	PIECE MARK	MATERIAL	DEPTH	WEIGHT	PILE				
					2				
		Comm. Qual.	M						
13" Hole		↓	S		19				

All Girts 12 W 27 - 11' 6" - 11' 6" - 11' 6"



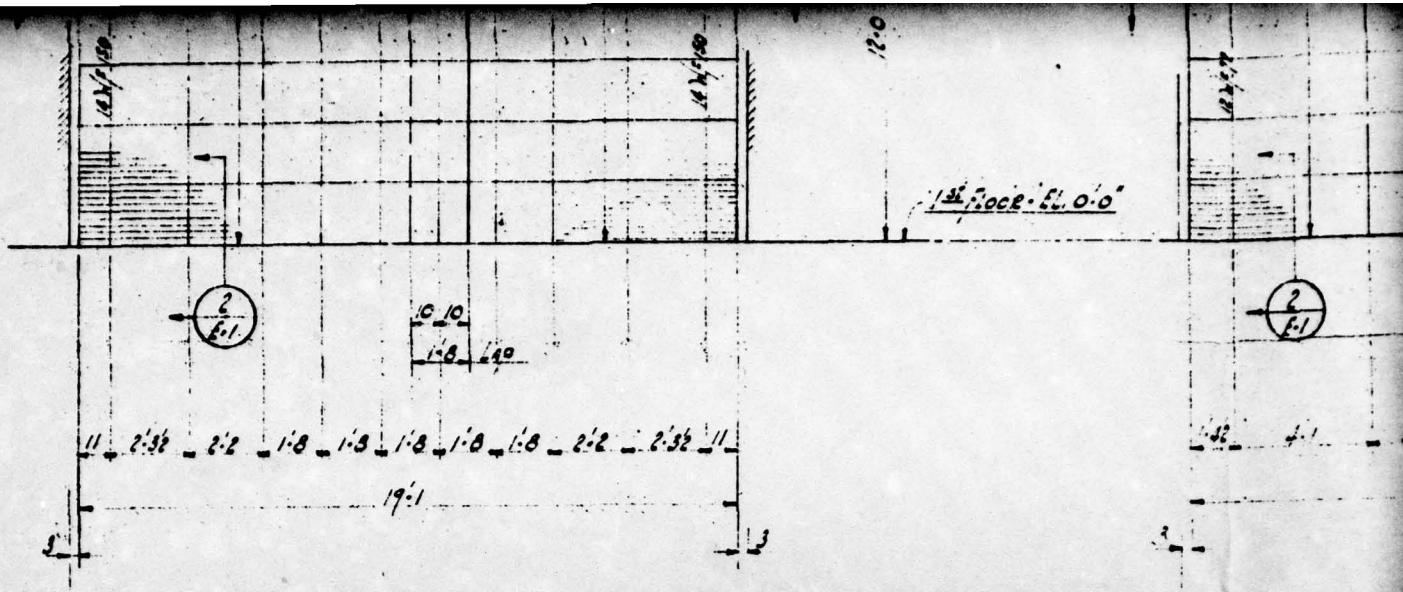
All Girts 12 W 27 - 11' 6" - 11' 6" - 11' 6"



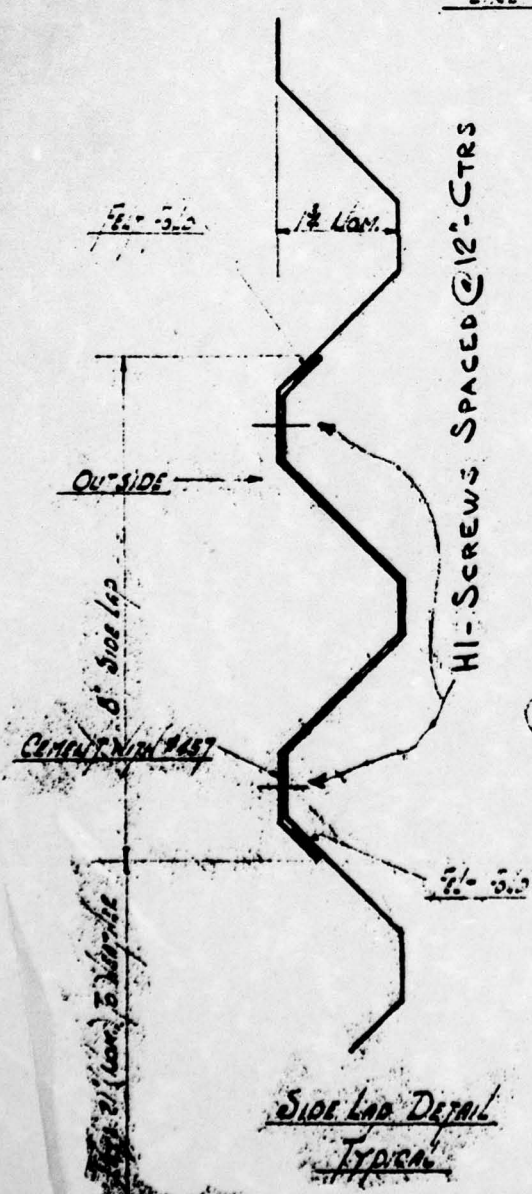




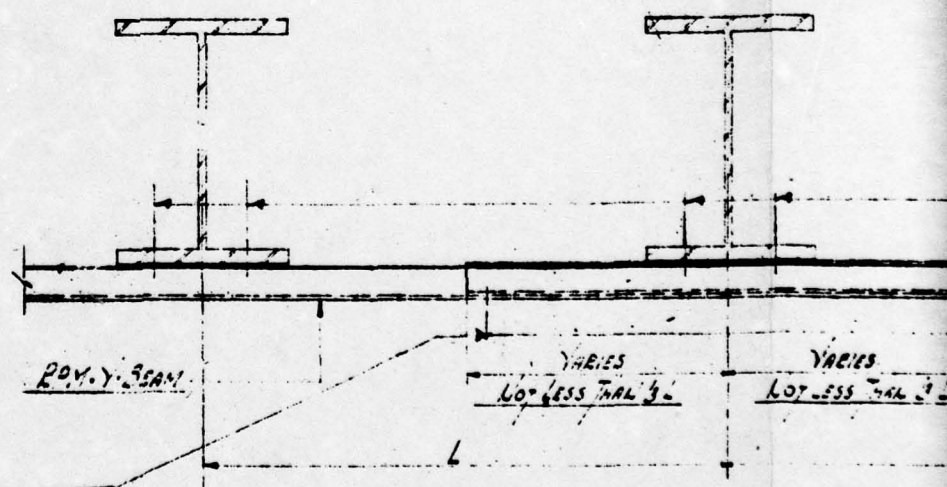




PLAN ELEVATION  
Fig. #2  
Like "A"



HI-SCREWS SPACED @ 12" CTRS



H3- SCREW IN 1<sup>ST</sup> HIGH V  
 H1- SCREW IN 2<sup>ND</sup>, 3<sup>RD</sup>, 4<sup>TH</sup> & 5<sup>TH</sup> HIGH VS  
 TYPICAL

Side Lap Detail  
 Typical





AD-A074 618

AMMANN AND WHITNEY NEW YORK  
SCIENTIFIC DIRECTOR'S REPORT OF ATOMIC WEAPON TESTS AT ENIWETOK--ETC(U)  
NOV 51

F/6 18/3

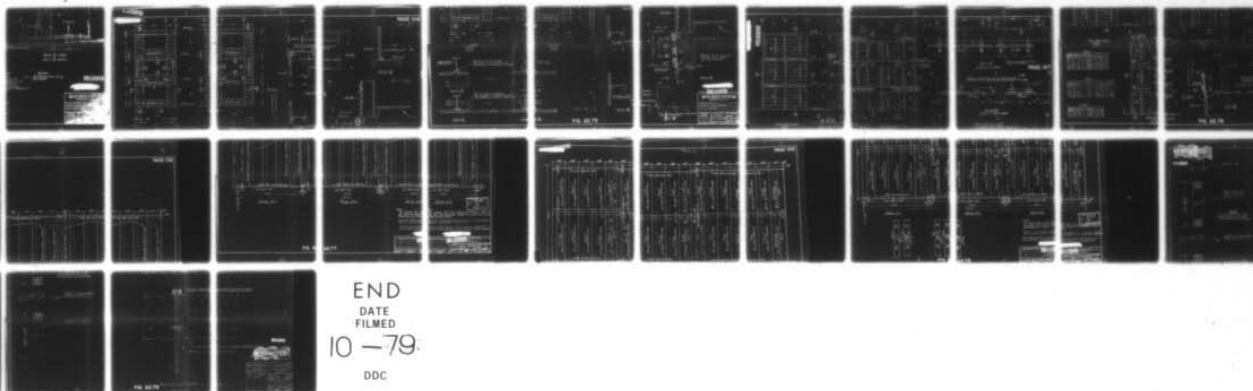
UNCLASSIFIED

AEC-WT-60(REF)-PT-3

NL

2 OF 2

ADA  
074618



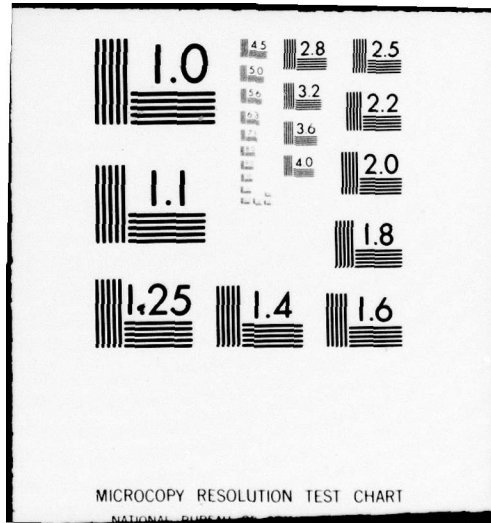
END

DATE

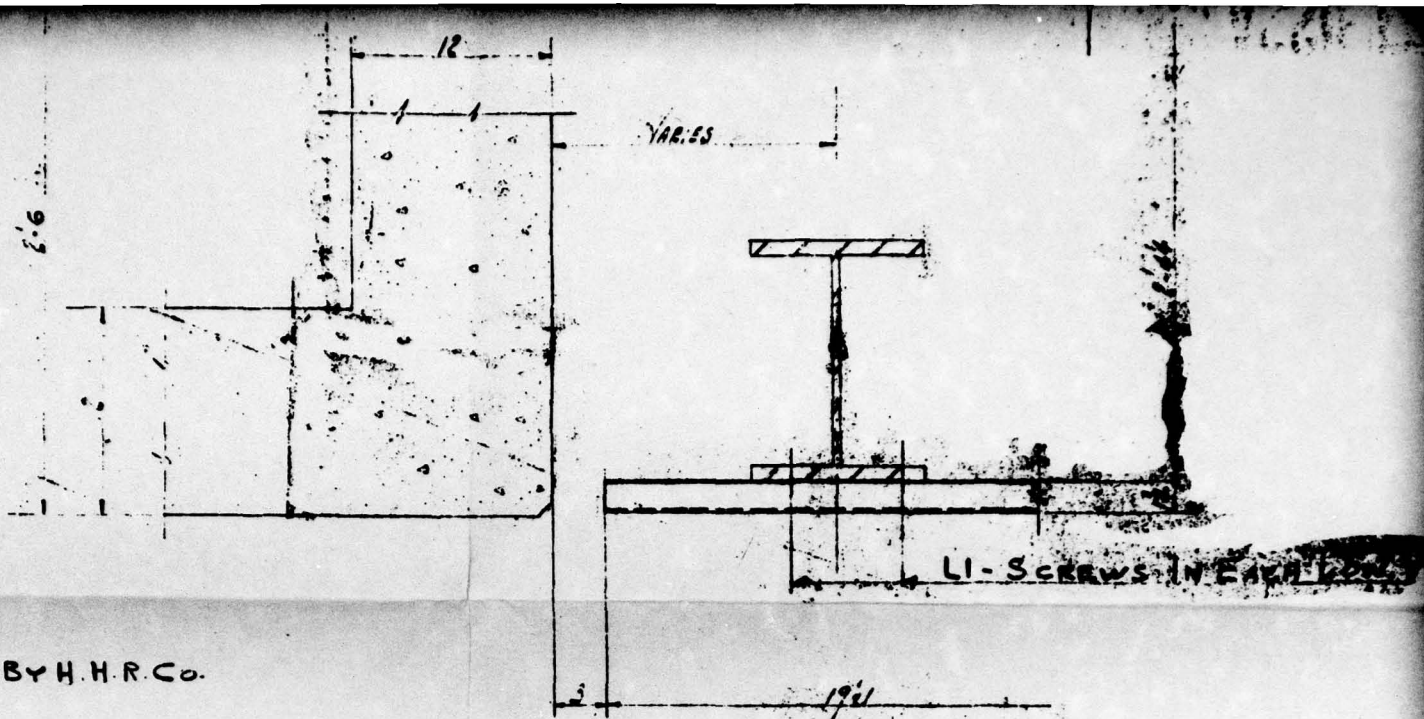
FILMED

10 -79

DDC







SECTION  $\frac{4}{2.1}$  AS SHOWN  
 SECTION  $\frac{5}{2.7}$  OPP. HAND

GENERAL NOTES

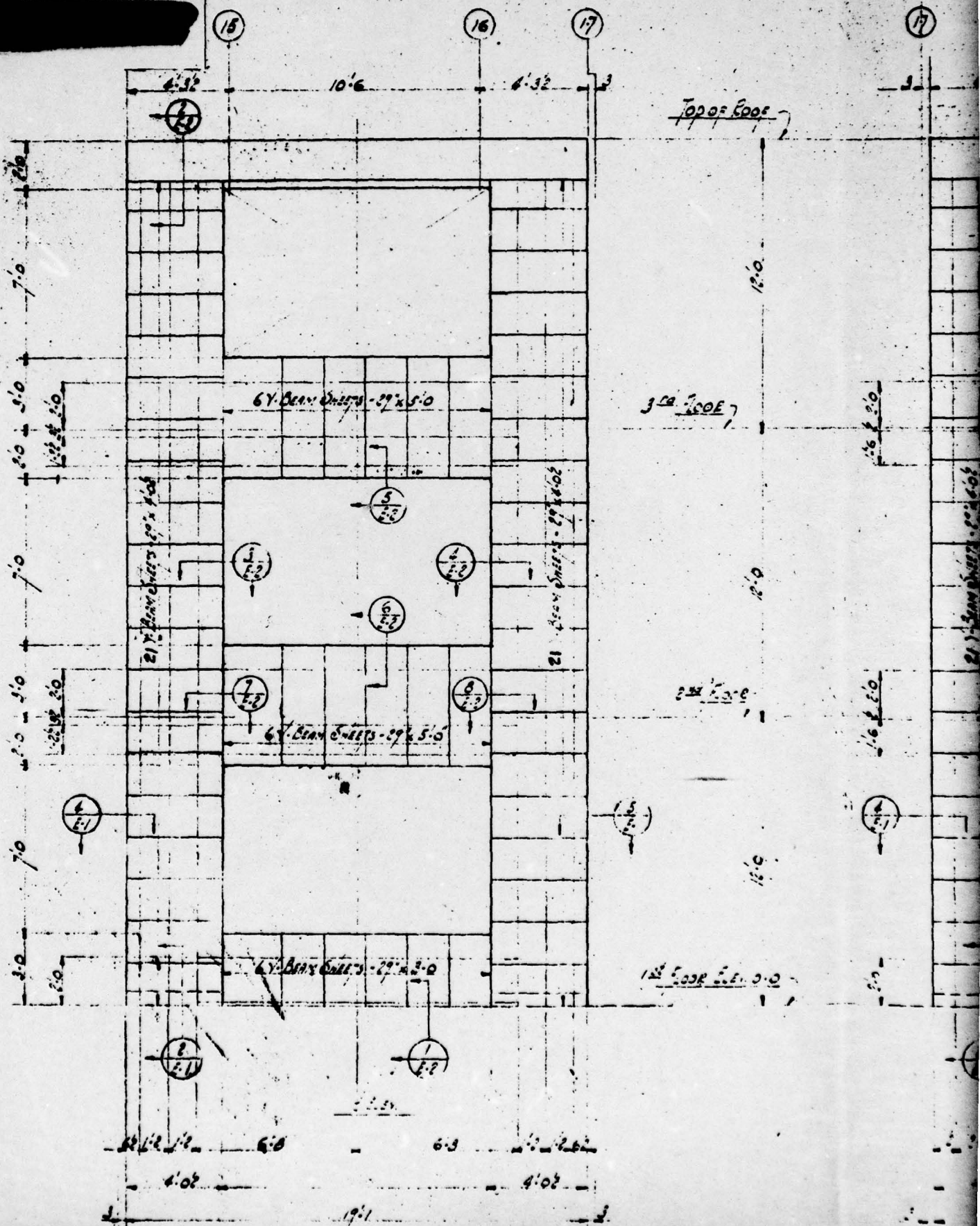
1. ALL DIMS. -  $\pm .015$  IN. UNLESS OTHERWISE SPECIFIED.  
 2. Y-BEAM - 18 GA. - BLACK - TREATED WITH  
 3. USE WELDING ROD - E6010

UNCLASSIFIED



<b>HH ROBERTSON</b>	
PITTSBURGH 22, PA., U.S.A.	
HOLMES & NAVER, INC.	
U.S. ATOMIC ENERGY COMMISSION	
MULTIPLE STORY BUILDING	
REVISIONS	DATE
9-27-50	7-15
10-12-50	

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ER @ 12" CTRS.  
H.H.R.CO.

RPM-7-844

LI-1W1ST 3RD 5TH LOW VS

Col.

1-5-67 34-4"

1-5-67 34-4"

V-BEAM IN FIELD.

SECTION 1/2

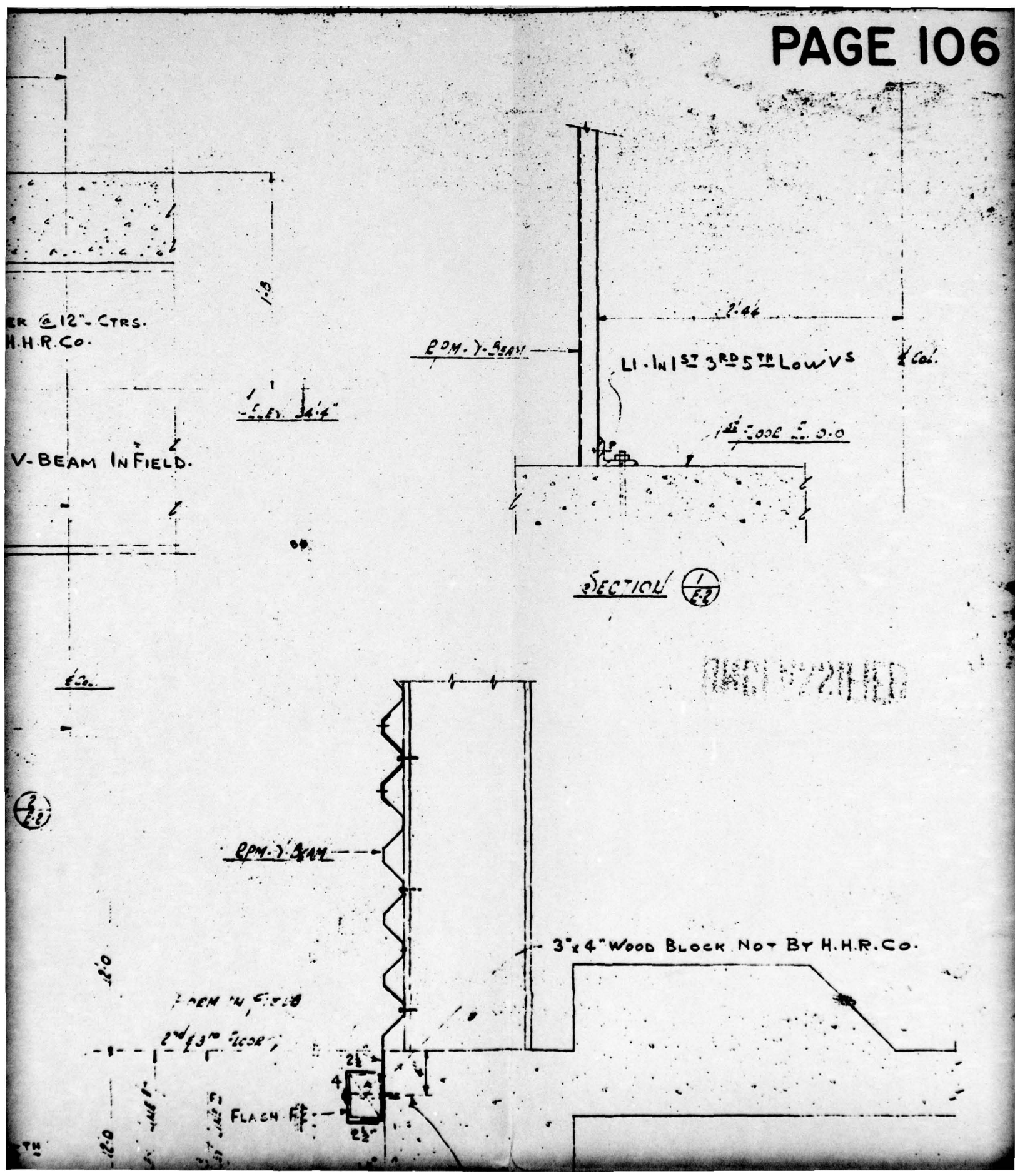
08/07/2018

RPM-7-844

3" x 4" WOOD BLOCK NOT BY H.H.R.CO.

7 MEN IN FIELD  
2nd 43rd floor

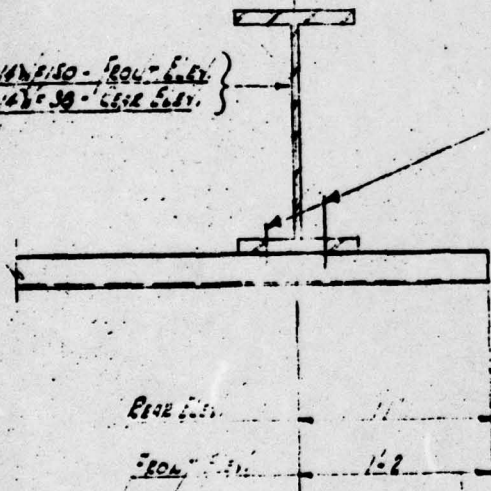
FLASH



145 A

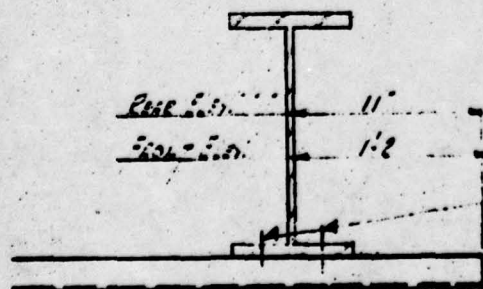
1425150 - 1204 - 6.51  
1425150 - 1204 - 6.51

FOR ALL VERTICAL POSTS:  
LI-SCREWS IN 1ST, 3RD, 5TH Lcvs  
STAGGERED SPACED ABOUT 1/2 OF WEB



6:00-10M (3/2)

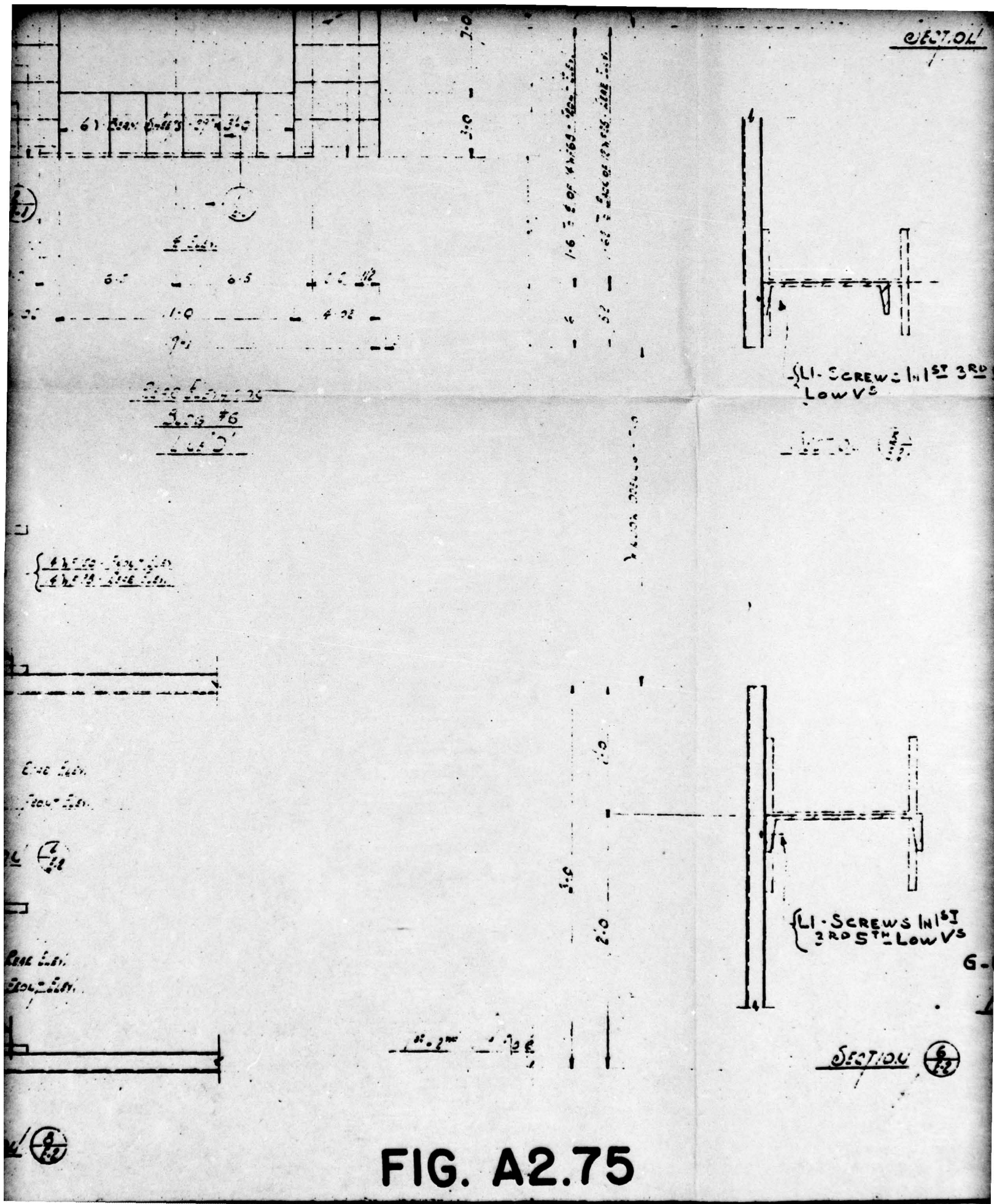
(FOR ALL VERTICAL POSTS  
LI-SCREWS IN 1ST, 3RD, 5TH LOW VS  
STAGGERED SPACED ABOUT 6 FEET)



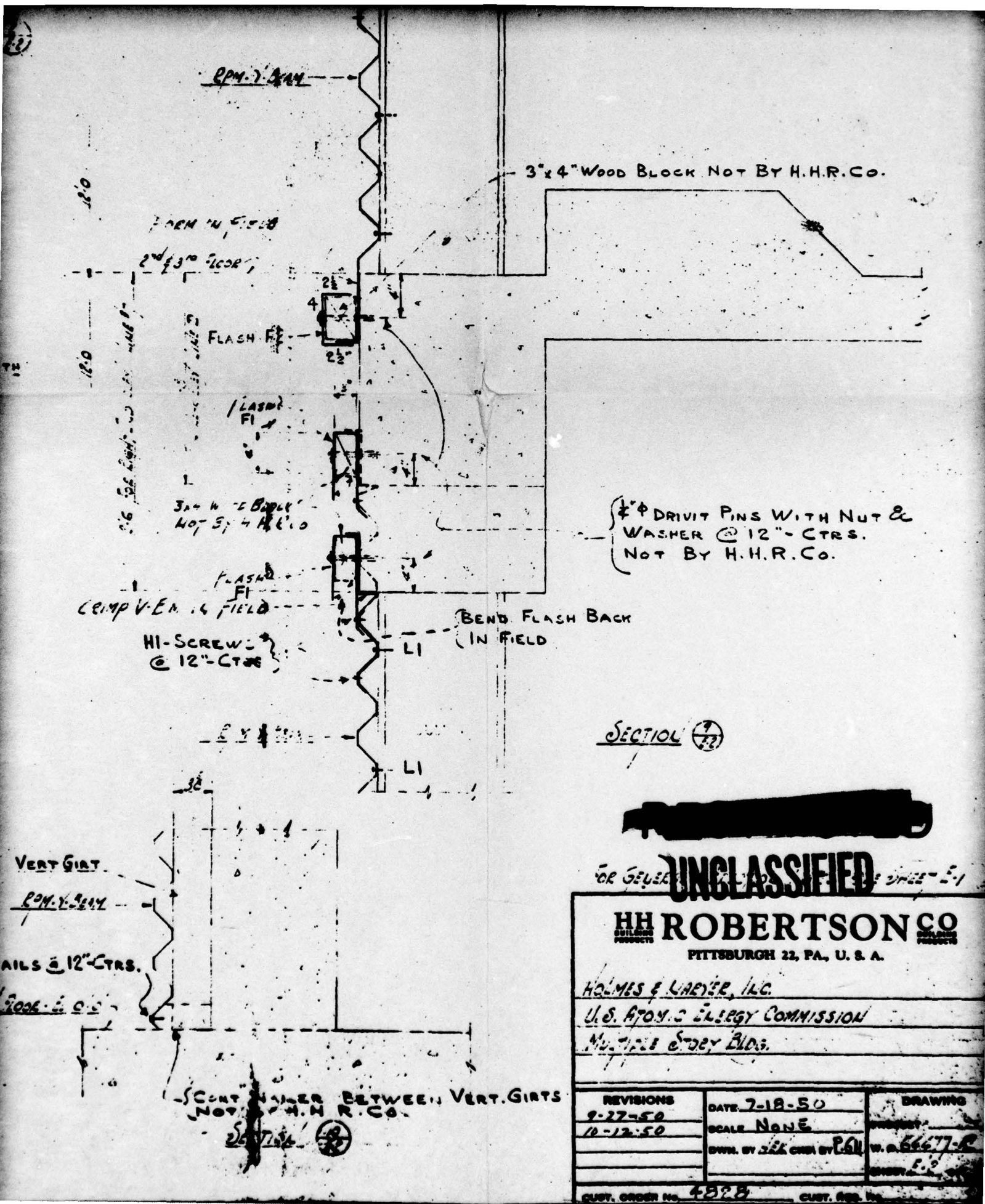
SECTION (7)

35070

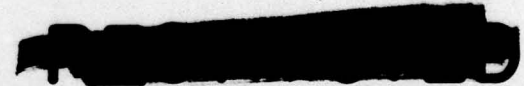








SECTION 9/12



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HH ROBERTSON CO

PITTSBURGH 22, PA., U. S. A.

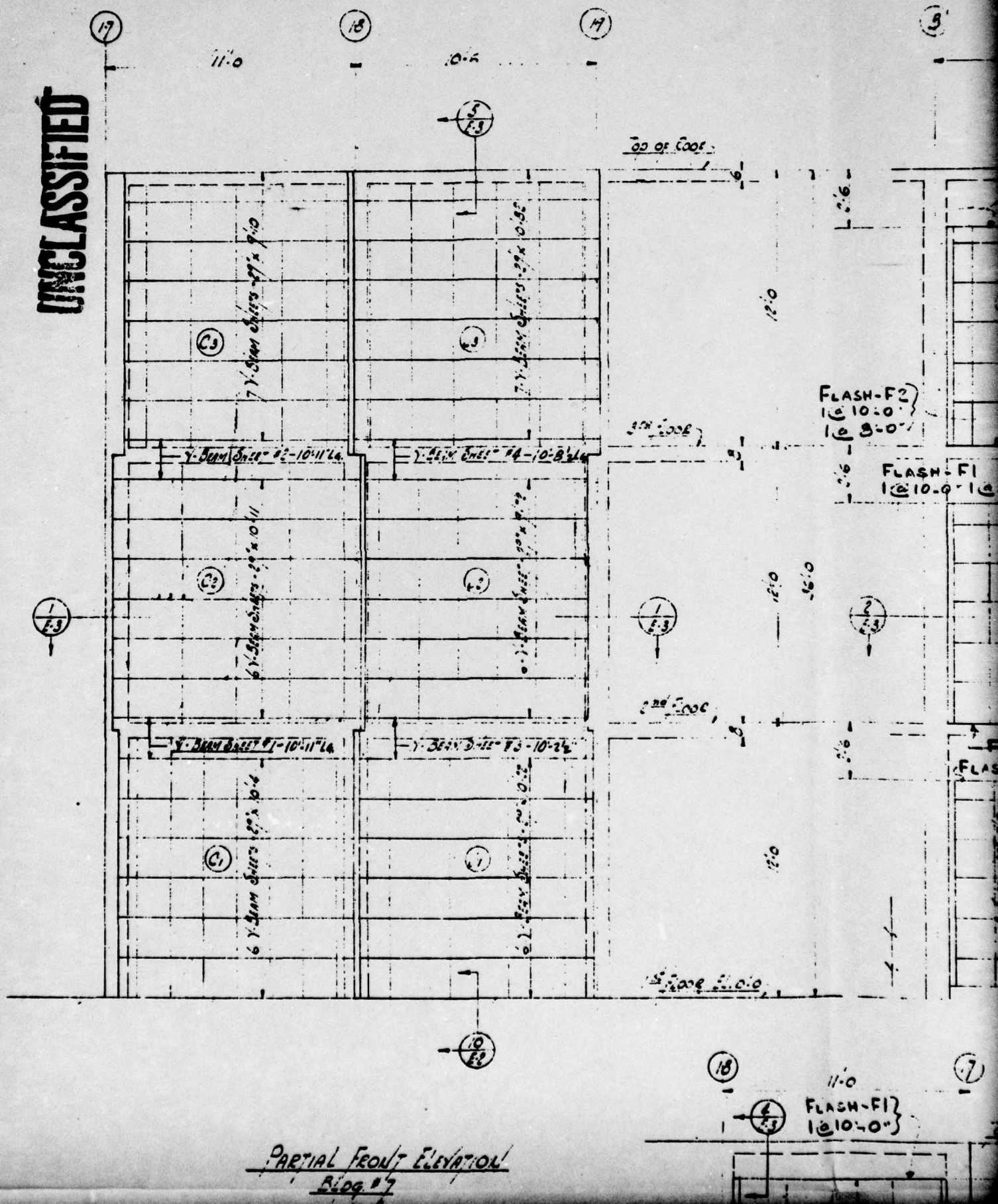
HOLMES & LAEYER, INC.

U.S. Atomic Energy Commission

Multiple Story Bldg.

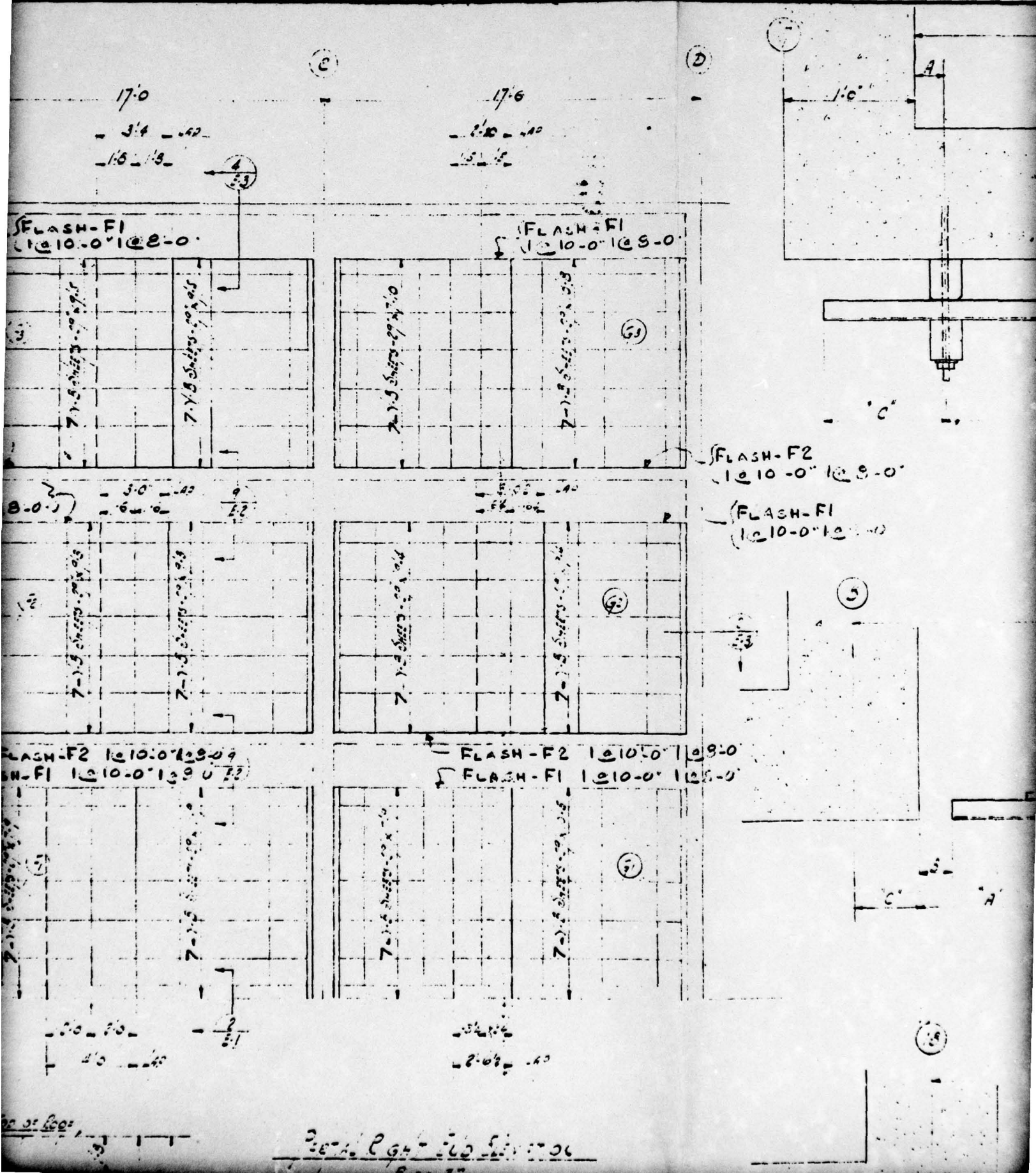
REVISIONS	DATE 7-18-50	DRAWING
9-27-50	SCALE NONE	PROJECT
10-12-50	OWN. BY J.E. CHS BY L.H.	W.D. 66677-R
		CHS
CUST. ORDER NO. 4828		CUST. REG. NO.

[REDACTED]



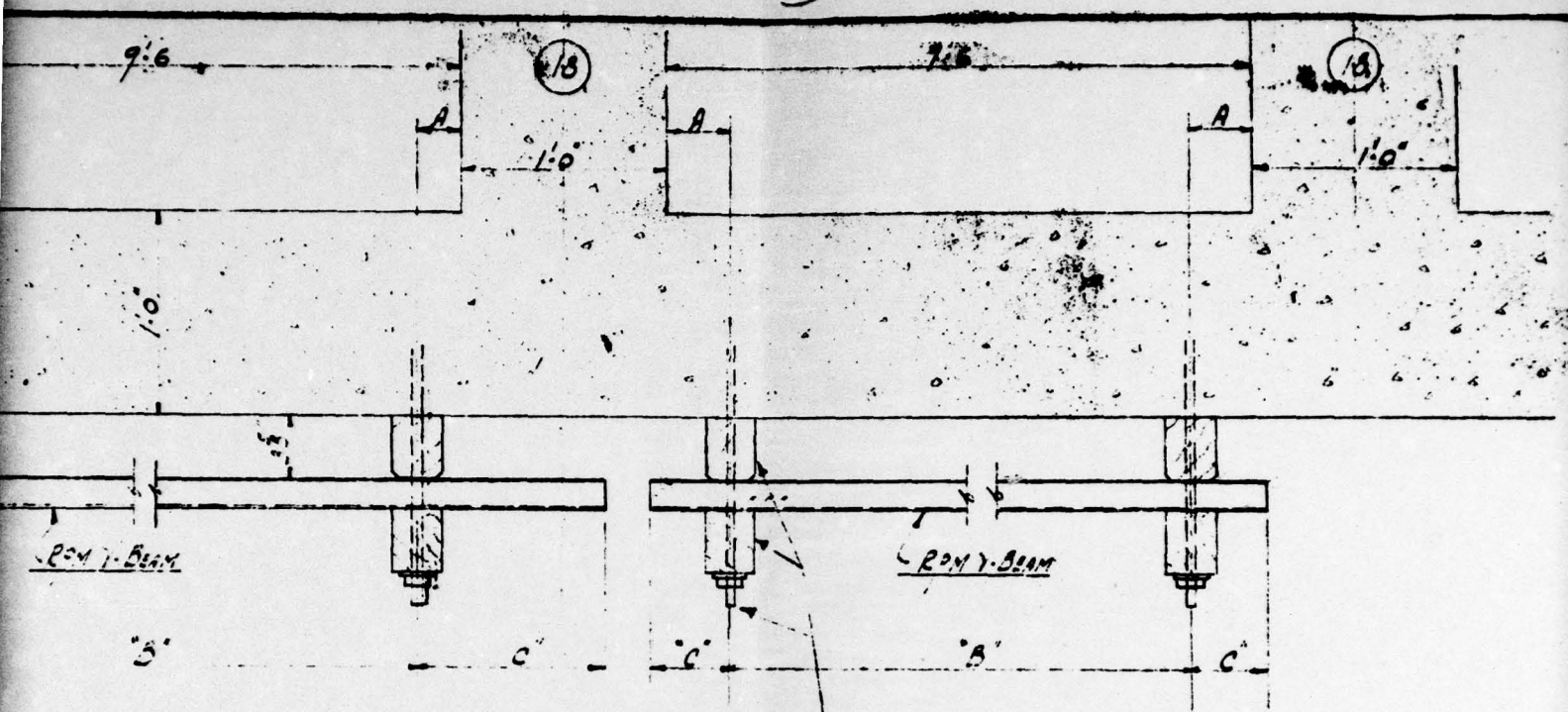


2





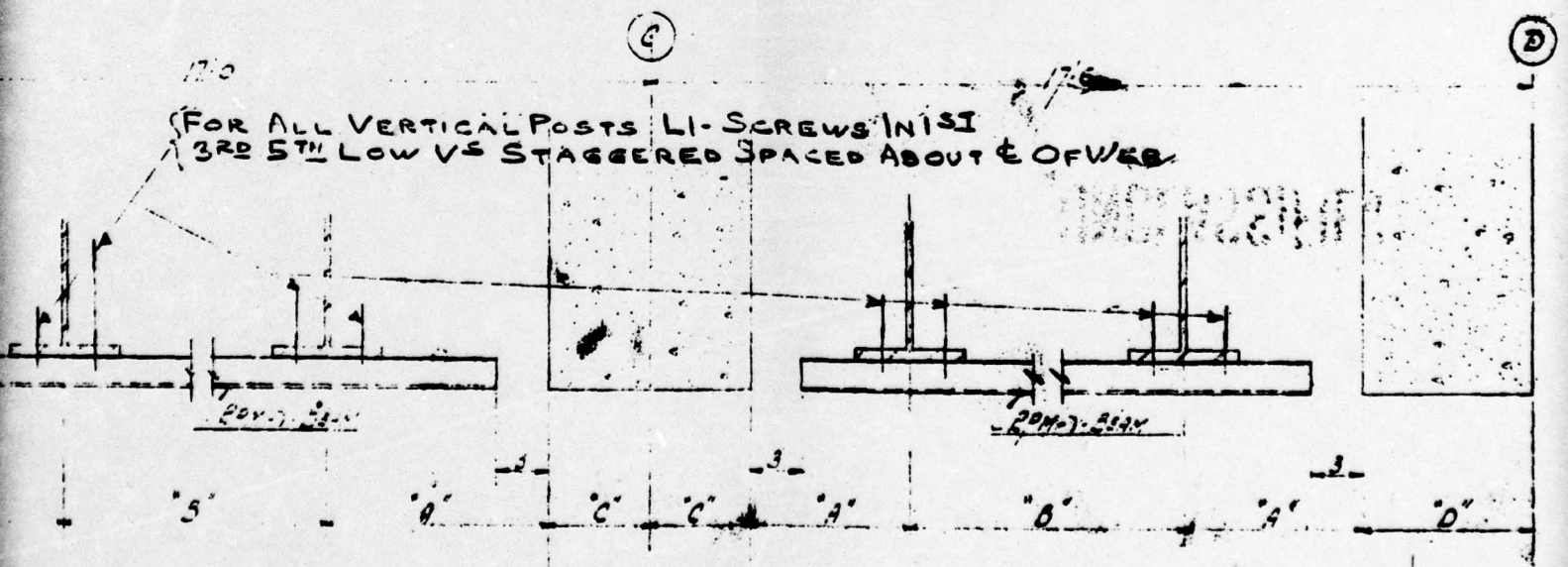
3



(CONT. WOOD & ANCHOR BOLTS  
NOT BY H.H.R. CO.)

SECTION 1  
SEE DIMENSIONS A-B-C-D SEE TABLE 2

PAGE 107



(FOR ALL VERTICAL POSTS LI-SCREWS IN 1ST  
3RD 5TH LOW VS STAGGERED SPACED ABOUT 6 OF WEB

SECTION 1  
FOR DIMENSIONS A-B-C-D SEE TABLE 2

11'0"

(FOR ALL VERTICAL POSTS  
LI-SCREWS IN 1ST 3RD 5TH LOW VS  
STAGGERED SPACED ABOUT 6 OF WEB

17

PARTIAL FRONT ELEVATION  
Bldg #7  
LINE A

TABLE #1

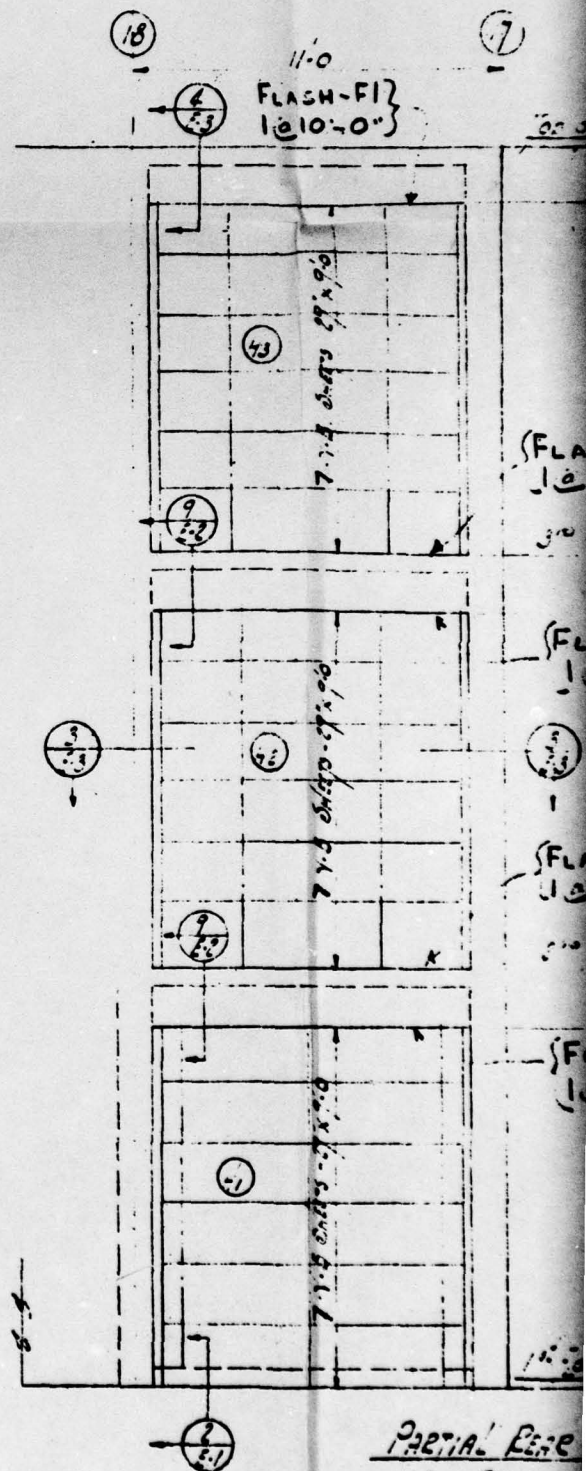
LOCATION	G.R. SIZE	G.R. SPACING	A	B	C
Panel - C3	1000-3x3	2'0" %	9'	8'0"	11'
do C2	do	2'0" %	0	9'6"	8'
do C1	do	1'5 1/2" %	6'	3'9"	9'
do J3	do	1'10" %	3'	9'4 1/2"	8'
do J2	do	1'8 1/2" %	5'	8'6"	6'
do J1	do	2'6 1/2" %	11'	7'6"	1'5 1/2"

TABLE #2

LOCATION	G.R. SIZE	G.R. SPACING	A	B	C	D
Panel - F3	12x12	2'5 1/2" %	1'1"	13'0"	6'	
do F2	do	3'1" %	1'0"	12'6"	6'	
do F1	10x12	4'0" %	2'0"	12'0"	6'	
do G3	14x130	2'0" %	1'0"	14'2"	6'	10'
do G2	12x12	3'1" %	1'0 1/2"	10'2"	6'	10'
do G1	14x130	2'8" %	1'4 1/2"	3'4"	6'	10'

TABLE #3

LOCATION	G.R. SIZE	G.R. SPACING	A	B
Panel - H3	12x19	4'0" %	2'4 1/2"	4'2"
do H2	12x12	4'3 1/2" %	2'4"	4'8"
do H1	do	3'11" %	10'	7'0"









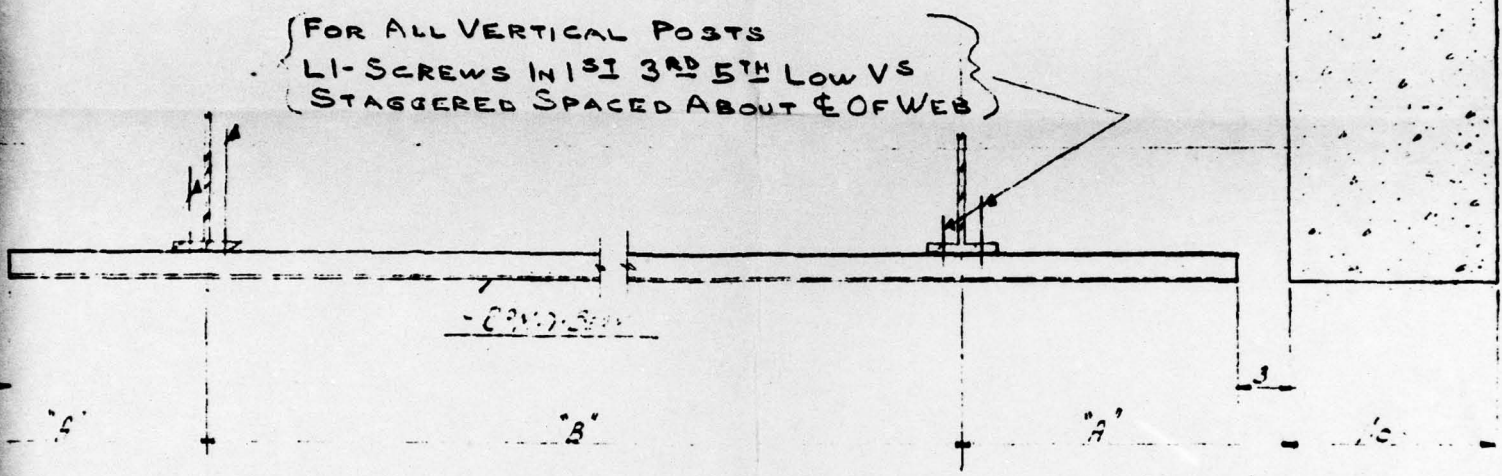
5' 0" 0' 0" 3' 0" 3' 0" 0' 0" 3' 0" 0' 0" 3' 0" 0' 0"

SECTION 3  
FOR DIMENSIONS A-B-C-D SEE TABLE 2

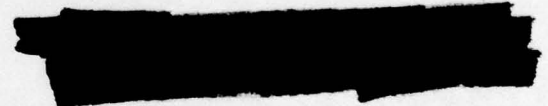
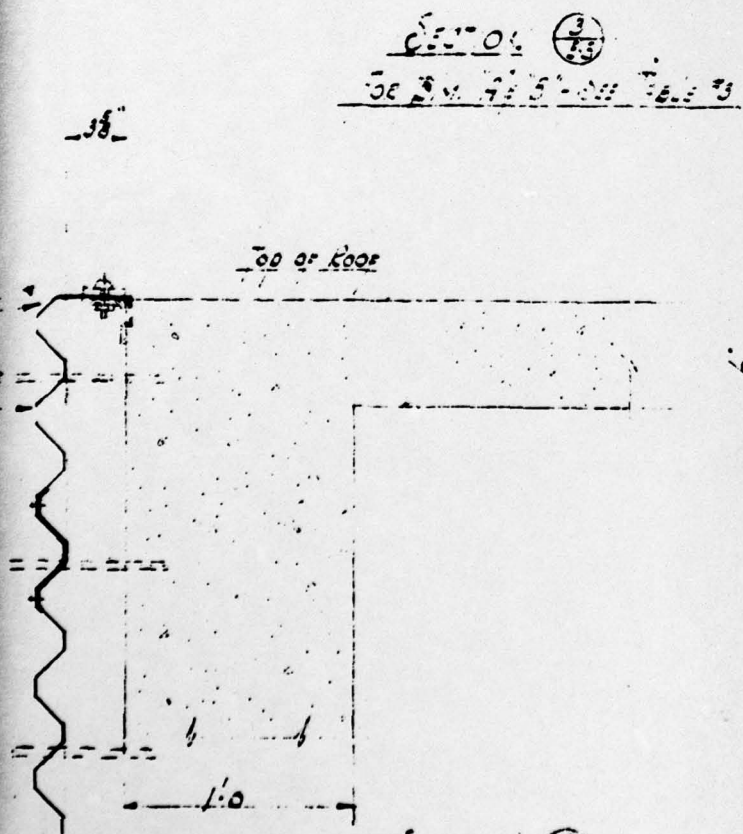
17

11'0"

FOR ALL VERTICAL POSTS  
L1-SCREWS IN 1ST 3RD 5TH LOW VS  
STAGGERED SPACED ABOUT 6" OF WEB



SECTION 3  
FOR DIMENSIONS A-B-C-D SEE TABLE 3

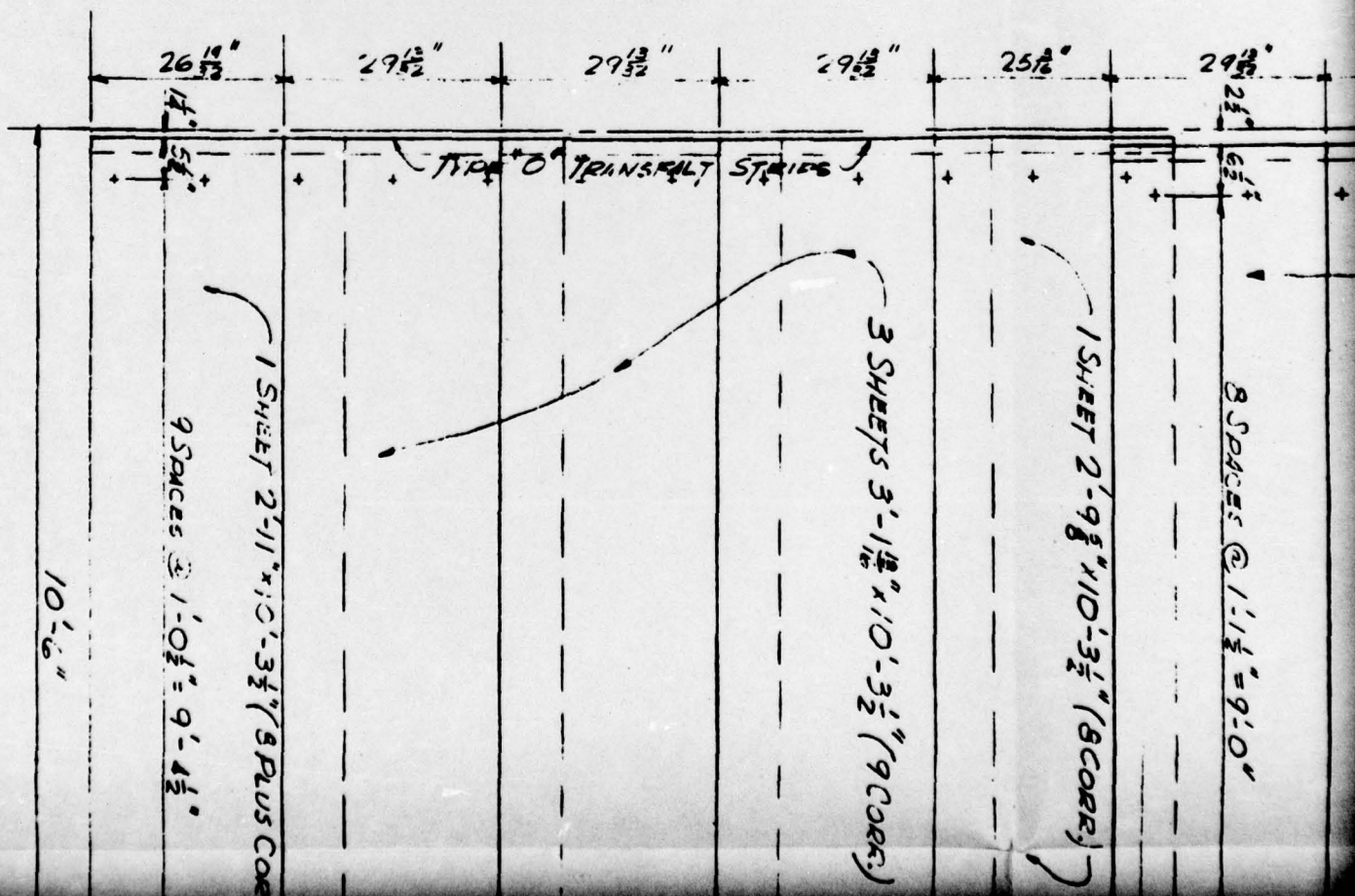


UNCLASSIFIED

FOR GENERAL INFORMATION ONLY. NOT TO BE USED FOR CONSTRUCTION.

<b>HH ROBERTSON CO</b> BUILDING PRODUCTS PITTSBURGH 22, PA., U. S. A.		
HOLMES & KREYER, INC. U. S. ATOMIC ENERGY COMMISSION MULTIPLE STORY BLDG.		
REVISIONS 9-27-50 10-12-50	DATE 7-18-50 SCALE NONE DWN. BY H.E. CKD. BY PSH	DRAWING PROJECT W. O. 6447-R SHEET 1 OF 1
CUST. ORDER NO. 4328 CUST. REQ. NO.		

UNCLASSIFIED



2

29 $\frac{13}{32}$ "

29 $\frac{13}{32}$ "

29 $\frac{13}{32}$ "

25 $\frac{1}{2}$ "

29 $\frac{13}{32}$ "

29 $\frac{13}{32}$ "

29 $\frac{13}{32}$ "

2

TYPE "O" TRANSFAL STRIPS

TYPE "O" TRANSFAL STRIPS

4 SHEETS 3'-1 $\frac{13}{16}$ " x 10'-1" (CORR.)

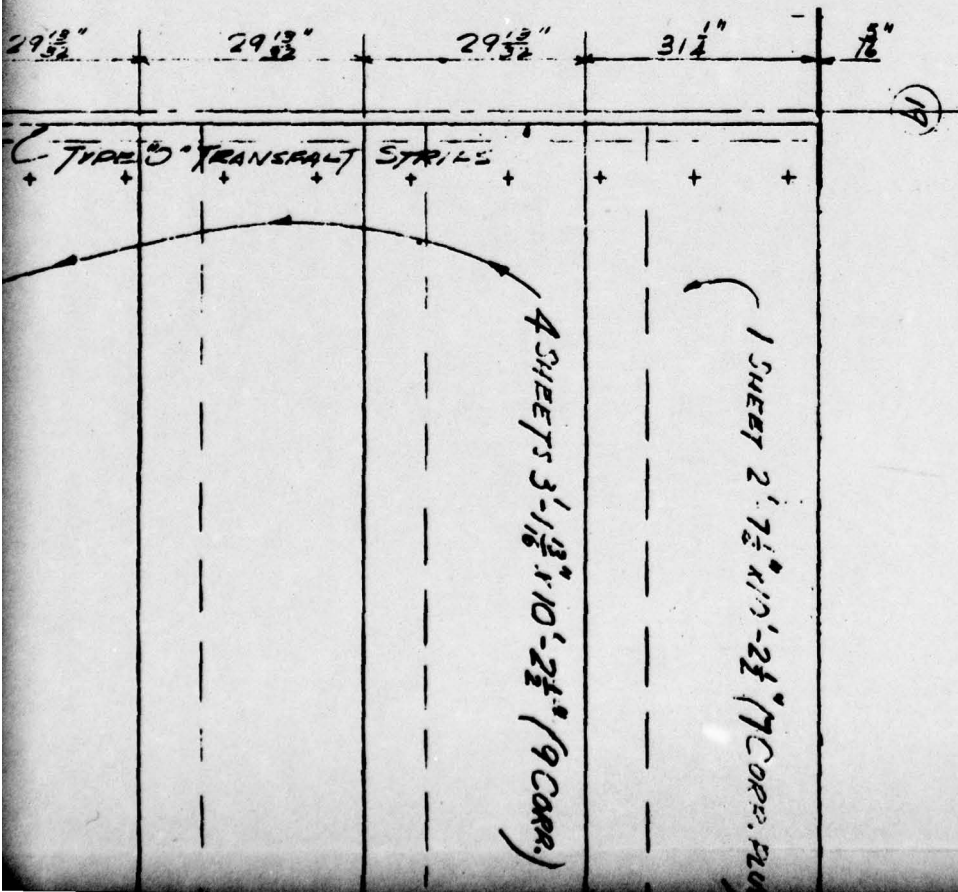
1 SHEET 2'-9 $\frac{5}{8}$ " x 10'-1" (CORR.)

7 SPACES @ 1'-3 $\frac{1}{4}$ " = 9'-0 $\frac{1}{2}$ "



3

PAGE 108



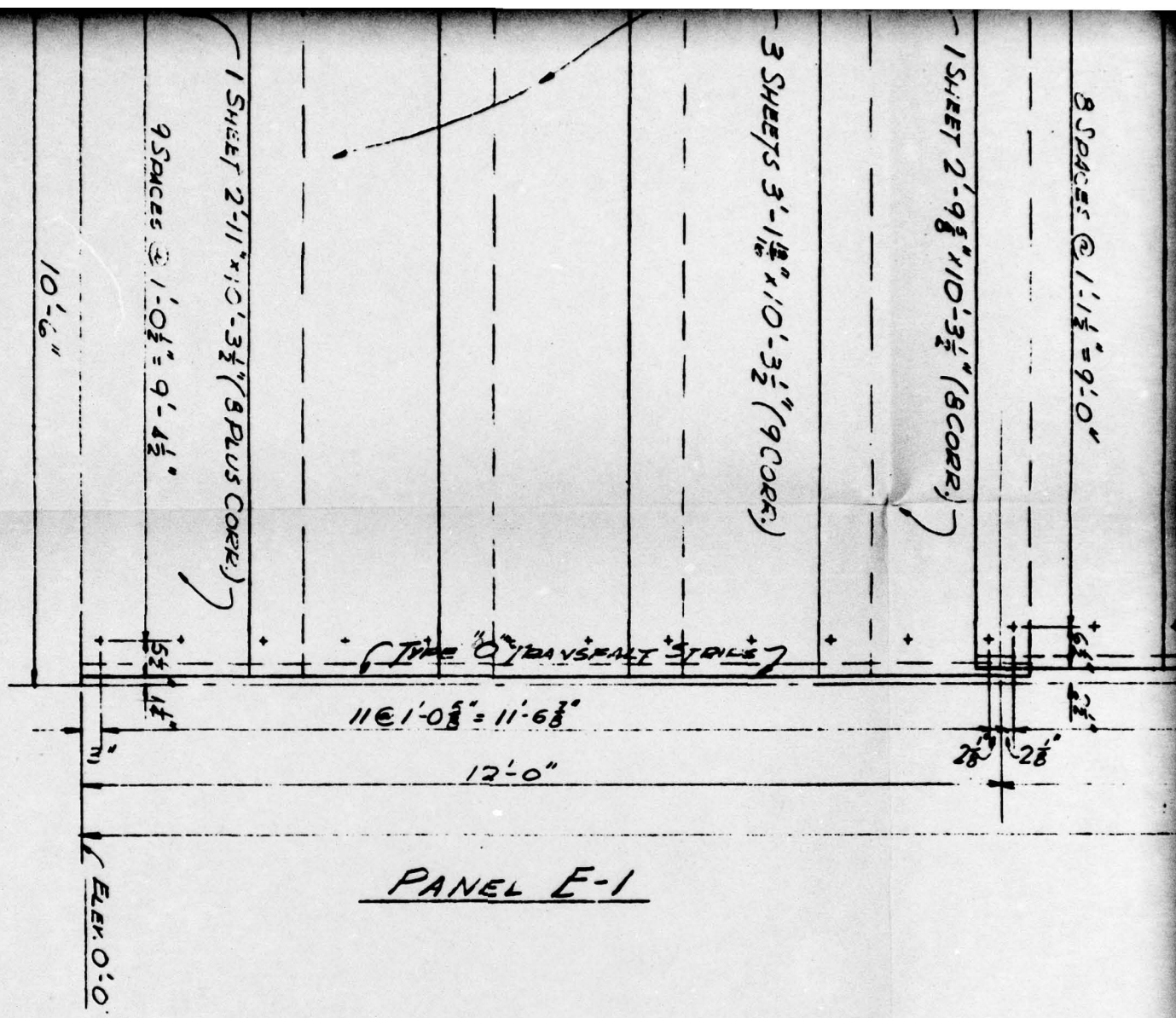


FIG. A

2

4 SHEETS 3'-11 1/8" x 10'-1" (9 CORE)

1 SHEET 2'-9 5/8" x 10'-1" (1 CORE)

7 SPACES @ 1'-3 3/4" = 9'-0 1/2"

TYPE "O" TRANSFILT STRIPS

TYPE "O" TRANSFILT STRIPS

11 @ 1'-0 5/8" = 11'-6 3/4"

11 @ 1'-0 5/8" = 11'-6 3/4"

12'-0"

12'-0"

36'-0"

1" 1" 2 1/2" 2 1/2"

PANEL E-2

PANEL E-3

NOTE

ALL SHEETS 4.2"  
ALL HOLES FOR FASTENERS  
TO BE DRILLED IN FIELD

ALL SHEETS TO BE CUT TO  
EXPOSED SURFACE DIMEN

DIMENSIONS FROM TABLE  
CONSOLIDATED WESTER

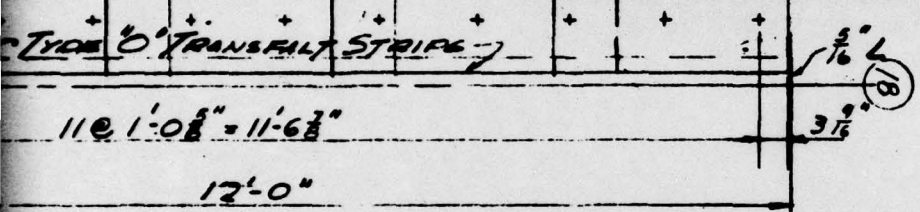
A2.77

HOLMES & NARVER	
1-8-50	REV. NO. APPROVED 2000.
2-1-50	THIS DRAWING SUPERSEDES
NO.	DATE
REVISIONS	



4 SHEETS 3'-1 1/2" x 10'-2 1/2" (9 CORR.)

1 SHEET 2'-7 1/2" x 10'-2 1/2" (7 CORR. PLUS)



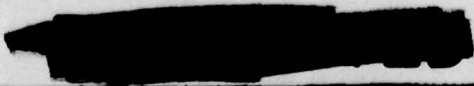
PANEL E-3

APPROVED  
SEP 25 1950  
DATE  
BY *EC*  
AMMANN AND WHITNEY  
CONSULTING ENGINEERS

NOTE  
ALL SHEETS 4.2" JOHNS MANVILLE CORRUGATED TRANSITE  
ALL HOLES FOR FASTENING SHEETS AND TRANSALT STRIPS  
TO BE DRILLED IN FIELD.

ALL SHEETS TO BE CUT TO PROVIDE 2 CORRELATION LAP LEAVING  
EXPOSED SURFACE DIMENSION AS INDICATED.

DIMENSIONS FROM TABLE 2 SHEET 5 DRUG. NO. 60-09-06-6  
CONSOLIDATED WESTERN STEEL CORP. ORDER 48357 SHEET E-3



10 L M E S & N A R V E R	UNCLASSIFIED T E C H N I C A L D R A W I N G E-1: E-2: E-3 No. 7				
	D E P A R T M E N T O F T H E A R M Y S P E C I F I C A T I O N F O R C O N T. W 4 9 - 1 2 9 - E N G - 1 4 8				
	W E S T E R N A S B E S T O S C O . E N G I N E E R S & C O N T R A C T O R S 6 7 5 T O W N S E N D S T R E E T S A N F R A N C I S C O , C A L I F O R N I A				
50 221 44 4					

Hand-drawn floor plan of a room with dimensions and material specifications. The plan is divided into several sections by dashed lines, with dimensions and material types labeled throughout.

**Dimensions (Top):** 26' 1/2", 20' 1/2", 29' 1/2", 29' 1/2", 25' 1/2", 29' 1/2".

**Dimensions (Right):** 8' 1/2" x 5' 1/2", 18 SPACES @ 0'-10 1/2" = 15'-9", 9'-0 1/2".

**Material Specifications:**

- TYPE X SHEET 2'-11" x 8'-5 1/2"** (3 CORE. PLUS) 15 SPACES @ 1'-1" x 16'-3"
- TYPE Y SHEET 2'-11" x 9'-6 1/2"** (3 CORE. PLUS)
- TYPE Y SHEET 3'-1 1/8" x 8'-5 1/2"** (9 CORE.)
- TYPE Y SHEET 3'-1 1/8" x 9'-6 1/2"** (9 CORE.)
- TYPE Y SHEET 3'-1 1/8" x 8'-5 1/2"** (9 CORE.)
- TYPE Y SHEET 3'-1 1/8" x 9'-6 1/2"** (9 CORE.)
- TYPE Y SHEET 2'-9 3/8" x 8'-5 1/2"** (8 CORE.)
- TYPE Y SHEET 2'-9 3/8" x 9'-6 1/2"** (8 CORE.)

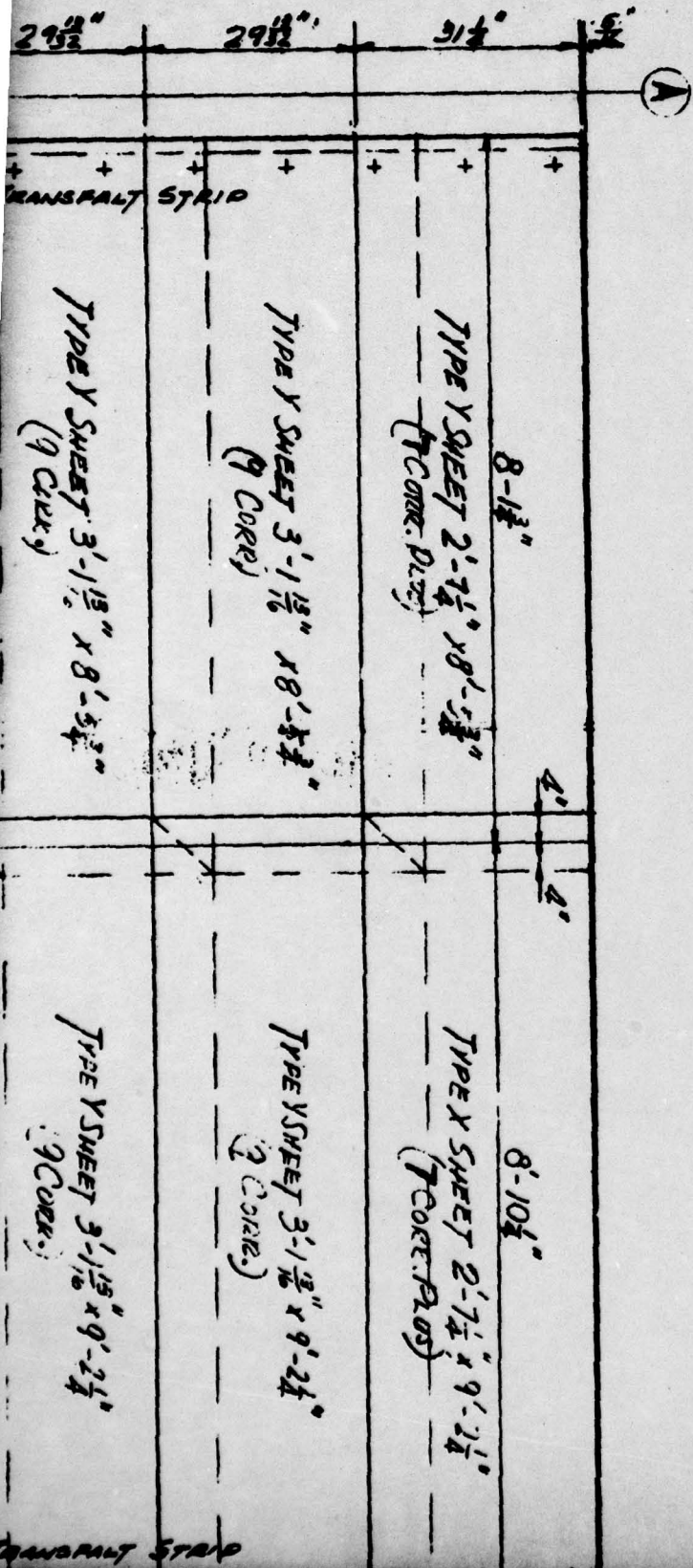
**Other Labels:**

- TYPE O TRANSFALT STRIP** (multiple locations)
- 17'-6"** (Bottom Left)



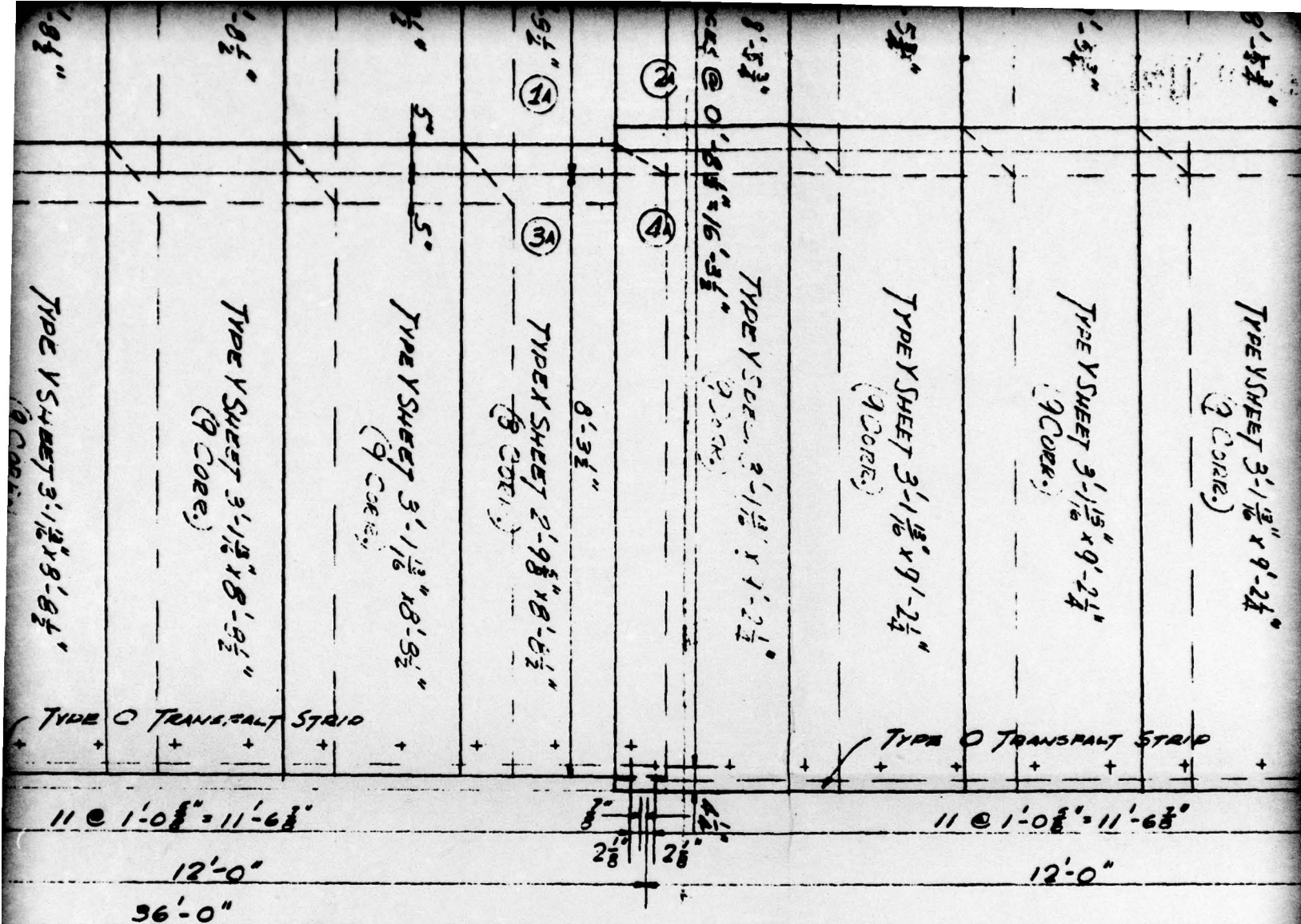






**FIG. 4**





PANEL A-2

PANEL A-3

**NOTE:**

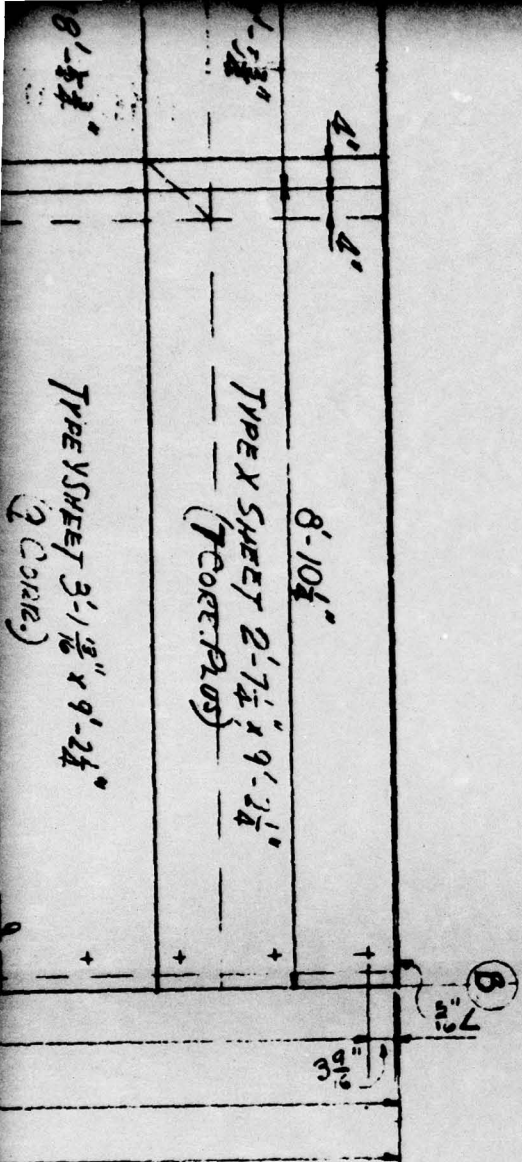
ALL SHEETS 4.2' JOHN'S MAN  
ALL HOLES FOR FASTENING SH  
TO BE DRILLED IN FIELD.

DIMENSIONS FROM TABLE 1 SH  
CONSOLIDATED WESTERN ST

ALL SHEETS TO BE CUT TO PRO  
LEAVING EXPOSED SURFACE DIM

HOLMES & NARVER		UNCLASS
		SPECIFIC
		WEST
		675 TOWNSEND
		DATE
		2-1-0
A 4-13-61	REV. per Narver's Draw's	
A 8-11-61	THIS DRAW. SUPERSEDES	
	DRAW. NO. 20-60-2	





APPROVED  
 DATE SEP 25 1950  
 BY *EC*  
 AMMANN AND WHITNEY

MAN'S MANVILLE CORRUGATED SHEETS AND TRANSFALTS STRIPS  
 ELD.

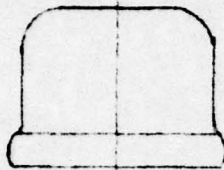
1 SHEET 5' x 10' NO. 60-27-06  
 STEEL CORP. ORDER 4937 SHEET 5.

TO PROVIDE 2 CORRUGATION LAPS  
 DIMENSIONS AS INDICATED.

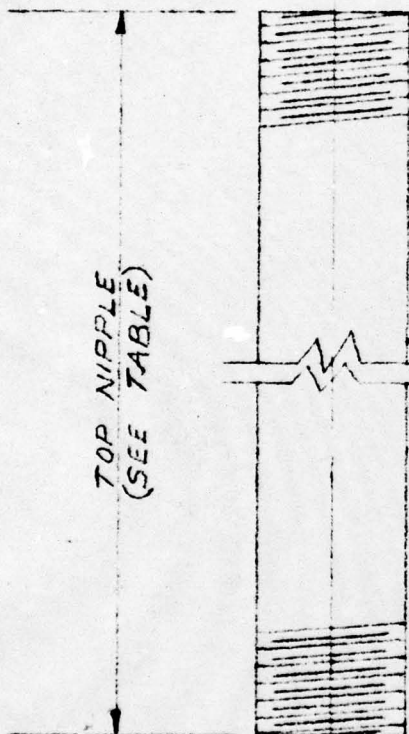
**CLASSIFIED**  
 SPECIFICATION FOR CONT. IN 50-27-24-148  
**WESTERN ASBESTOS CO.**  
 ENGINEERS & CONTRACTORS  
 575 TOWNSEND STREET  
 SAN FRANCISCO, CALIFORNIA  
 50-27-24-148

~~RECLASSIFIED~~

UNCLASSIFIED



$\frac{1}{2}$ " PIPE CAP



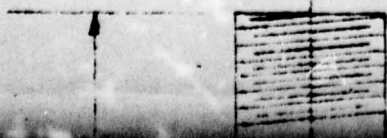
$\frac{1}{2}$ " STD BLACK PIPE  
NIPPLE, THREAD  
EACH END

NOTE

ALL MOUNTS THIS TYPE  
MODIFIED IN THE FIELD  
TO PROVIDE  $1\frac{1}{2}$ " DIA. NIPPLE



$\frac{1}{2} \times 3\frac{1}{2}$ "  $\phi$  STD MALLEABLE  
IRON FLOOR FLANGE



$\frac{1}{2}$ " STD BLACK PIPE

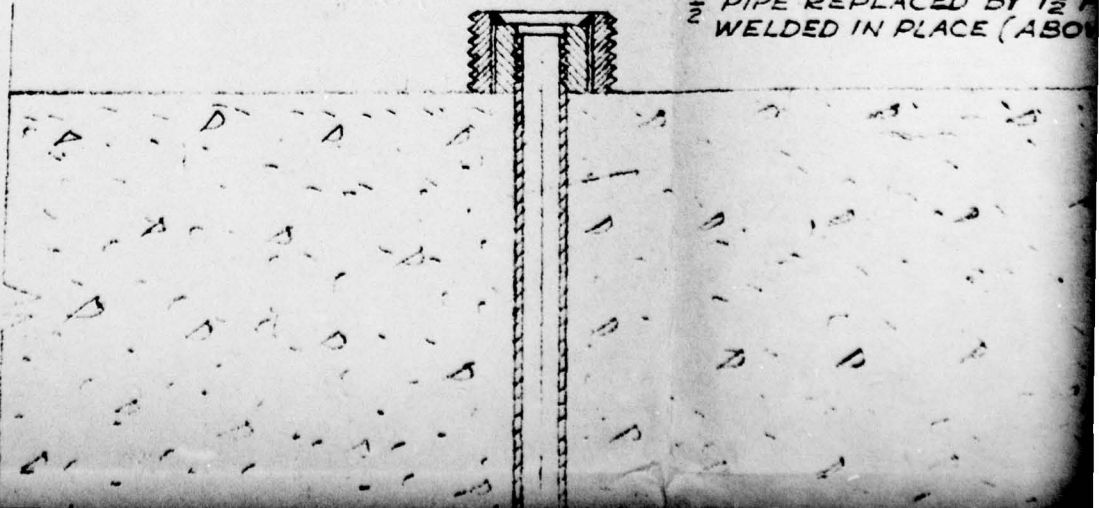


h

2

TOP NIPPLE	BOTTOM PIPE									
	0"		12"		24"		36"		48"	
3"	5000	a	5000	k	5000	u	5000	E	5000	O
4"	"	b	"	l	"	v	"	F	"	P
5"	"	c	"	m	"	w	"	G	"	Q
6"	"	d	"	n	"	x	"	H	"	R
7"	"	e	"	o	"	y	"	I	"	S
8"	"	f	"	p	"	z	"	J	"	T
9"	"	g	"	q	"	A	"	K	"	U
10"	"	h	"	r	"	B	"	L	"	V
11"	"	i	"	s	"	C	"	M	"	W
12"	"	j	"	t	"	D	"	N	"	X

$\frac{1}{2}$ " PIPE REPLACED BY  $1\frac{1}{2}$ "  
WELDED IN PLACE (ABOVE)





1

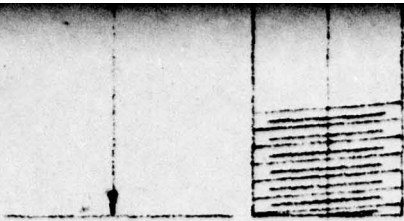
3

# PAGE 110

3"
0 0
P
Q
R
S
T
U
V
W
X

D BY 1 1/2" PIPE BY SANDIA  
CE (ABOVE SLAB ONLY)

ALL MOUNTS THIS TYPE  
MODIFIED IN THE FIELD  
TO PROVIDE 1 1/2" DIA. NIPPLE

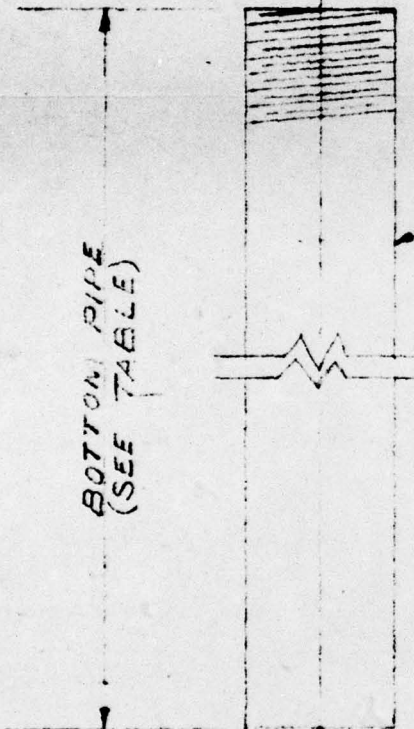


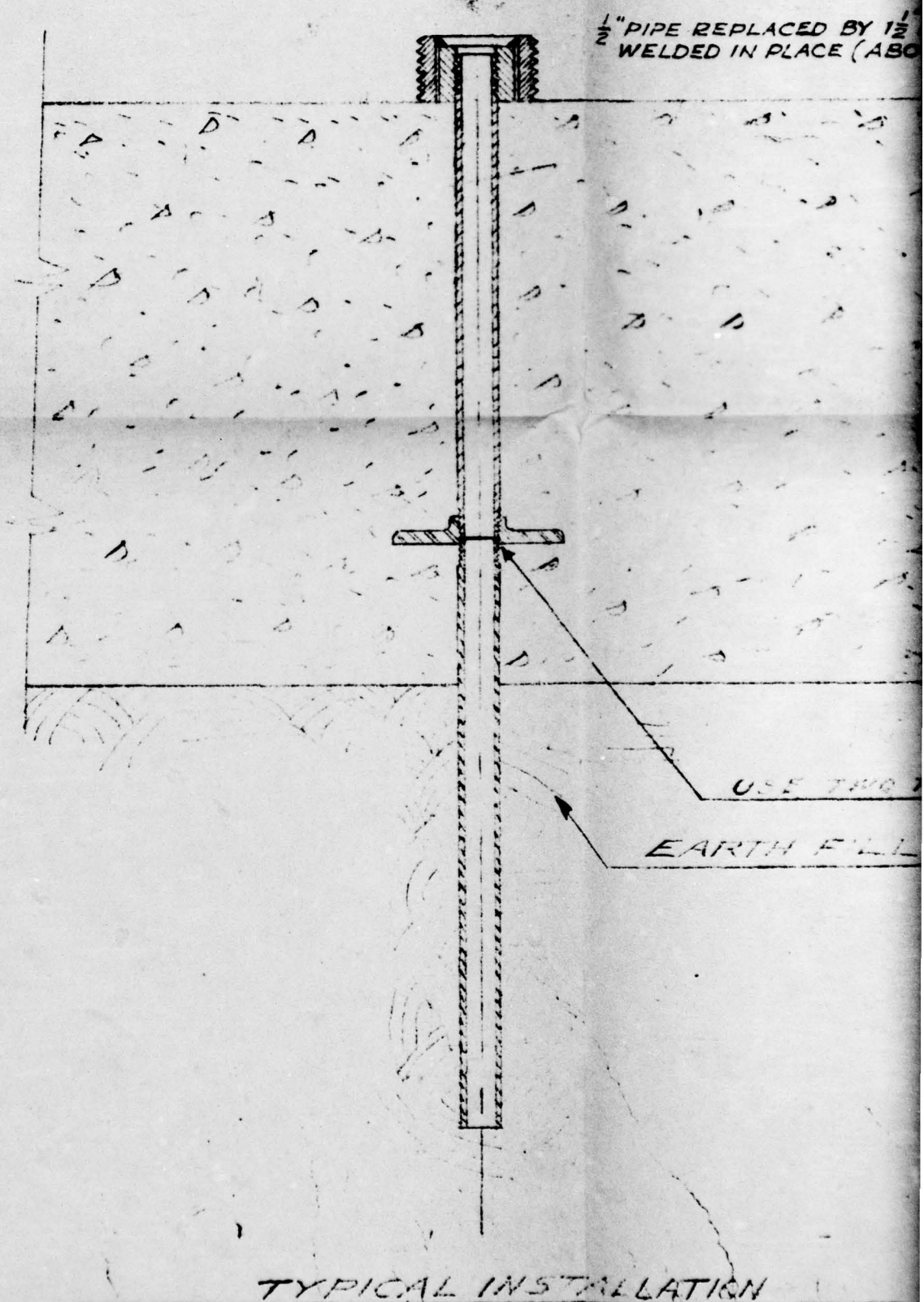
1" x 3 1/2"  $\phi$  STD MALLEABLE  
IRON FLOOR FLANGE



1/2" STD BLACK PIPE  
THREAD ONE END ONLY

BOTTOM PIPE  
(SEE TABLE)





**FIG. A2.79**



REPLACED BY 1<sup>1</sup>/<sub>2</sub>" PIPE BY SANDIA  
ED IN PLACE (ABOVE SLAB ONLY)

UNCLASSIFIED

USE TWO THREADS FOR BOTTOM PIPE

EARTH FILL

~~RESTRICTED~~

SCALE FULL SCALE

FOR POURED IN PLACE CONCRETE

REVISIONS			HOLMES & HARVER INCORPORATED ENGINEERS	
NO.	DATE	DESCRIPTION		
1	3/26/51	COLLECTED NOTATIONS	6045 FIGUEROA ST. LOS ANGELES	
2	5/9/51	GENERAL REVISION AS PER PLAN	MOUNT FOR DISPLACEMENT GAUGE	
DR ROSE		CH. LV	DATE 3-20-50	SHEET NO. 5000
JOB NO. 840P		APPROVED <i>[Signature]</i>		